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(54) Title: RNA INTERFERENCE MEDIATED INHIBITION OF GENE EXPRESSION USING SHORT INTERFERING NU-CLEIC ACID (SINA)

(57) Abstract: This invention relates to compounds, compositions, and methods useful for modulating gene expression using short interfering nucleic acid (siNA) molecules. In particular, the instant invention features small nucleic acid molecules, such as short interfering nucleic acid (siNA), short interfering RNA (siRNA), double-stranded RNA (dsRNA), micro-RNA (miRNA), and short hairpin RNA (shRNA) molecules and methods used to modulate the expression of genes, such as expressed pseudogenes associated with the maintenance or development of diseases, disorders, traits, and conditions in a subject or organism.



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RNA INTERFERENCE MEDIATED INHIBITION OF GENE EXPRESSION USING SHORT INTERFERING NUCLEIC ACID (siNA)

This application is a continuation-in-part of International Patent Application No. PCT/US04/16390, filed May 24, 2004, which is a continuation-in-part of U.S. Patent 5 Application No. 10/826,966, filed April 16, 2004, which is continuation-in-part of U.S. Patent Application No. 10/757,803, filed January 14, 2004, which is a continuation-inpart of U.S. Patent Application No. 10/720,448, filed November 24, 2003, which is a continuation-in-part of U.S. Patent Application No. 10/693,059, filed October 23, 2003, which is a continuation-in-part of U.S. Patent Application No. 10/444,853, filed May 23, 10 2003, which is a continuation-in-part of International Patent Application No. PCT/US03/05346, filed February 20, 2003, and a continuation-in-part of International Patent Application No. PCT/US03/05028, filed February 20, 2003, both of which claim the benefit of U.S. Provisional Application No. 60/358,580 filed February 20, 2002, U.S. Provisional Application No. 60/363,124 filed March 11, 2002, U.S. Provisional 15 Application No. 60/386,782 filed June 6, 2002, U.S. Provisional Application No. 60/406,784 filed August 29, 2002, U.S. Provisional Application No. 60/408,378 filed September 5, 2002, U.S. Provisional Application No. 60/409,293 filed September 9, 2002, and U.S. Provisional Application No. 60/440,129 filed January 15, 2003. This application is also a continuation-in-part of International Patent Application No. 20 PCT/US04/13456, filed April 30, 2004, which is a continuation-in-part of U.S. Patent Application No. 10/780,447, filed February 13, 2004, which is a continuation-in-part of U.S. Patent Application No. 10/427,160, filed April 30, 2003, which is a continuation-inpart of International Patent Application No. PCT/US02/15876 filed May 17, 2002, which claims the benefit of U.S. Provisional Application No. 60/292,217, filed May 18, 2001, 25 U.S. Provisional Application No. 60/362,016, filed March 6, 2002, U.S. Provisional Application No. 60/306,883, filed July 20, 2001, and U.S. Provisional Application No. 60/311,865, filed August 13, 2001. This application is also a continuation-in-part of U.S. Patent Application No. 10/727,780 filed December 3, 2003. This application also claims the benefit of U.S. Provisional Application No. 60/543,480, filed February 10, 2004. 30 The instant application claims the benefit of all the listed applications, which are hereby incorporated by reference herein in their entireties, including the drawings.

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Field Of The Invention

The present invention relates to compounds, compositions, and methods for the study, diagnosis, and treatment of traits, diseases and conditions that respond to the modulation of tartget gene expression and/or activity. The present invention is also directed to compounds, compositions, and methods relating to traits, diseases and conditions that respond to the modulation of expression and/or activity of genes involved in gene expression pathways or other cellular processes that mediate the maintenance or development of such traits, diseases and conditions. Specifically, the invention relates to small nucleic acid molecules, such as short interfering nucleic acid (siNA), short interfering RNA (siRNA), double-stranded RNA (dsRNA), micro-RNA (miRNA), and short hairpin RNA (shRNA) molecules capable of mediating RNA interference (RNAi) against target gene expression. Such small nucleic acid molecules are useful, for example, in providing compositions for treatment of traits, diseases and conditions that can respond to modulation of gene expression in a subject or organism.

Background Of The Invention

The following is a discussion of relevant art pertaining to RNAi. The discussion is provided only for understanding of the invention that follows. The summary is not an admission that any of the work described below is prior art to the claimed invention.

RNA interference refers to the process of sequence-specific post-transcriptional gene silencing in animals mediated by short interfering RNAs (siRNAs) (Zamore et al., 2000, Cell, 101, 25-33; Fire et al., 1998, Nature, 391, 806; Hamilton et al., 1999, Science, 286, 950-951; Lin et al., 1999, Nature, 402, 128-129; Sharp, 1999, Genes & Dev., 13:139-141; and Strauss, 1999, Science, 286, 886). The corresponding process in plants (Heifetz et al., International PCT Publication No. WO 99/61631) is commonly referred to as post-transcriptional gene silencing or RNA silencing and is also referred to as quelling in fungi. The process of post-transcriptional gene silencing is thought to be an evolutionarily-conserved cellular defense mechanism used to prevent the expression of foreign genes and is commonly shared by diverse flora and phyla (Fire et al., 1999, Trends Genet., 15, 358). Such protection from foreign gene expression may have evolved in response to the production of double-stranded RNAs (dsRNAs) derived from

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viral infection or from the random integration of transposon elements into a host genome via a cellular response that specifically destroys homologous single-stranded RNA or viral genomic RNA. The presence of dsRNA in cells triggers the RNAi response through a mechanism that has yet to be fully characterized. This mechanism appears to be different from other known mechanisms involving double stranded RNA-specific ribonucleases, such as the interferon response that results from dsRNA-mediated activation of protein kinase PKR and 2',5'-oligoadenylate synthetase resulting in non-specific cleavage of mRNA by ribonuclease L (see for example US Patent Nos. 6,107,094; 5,898,031; Clemens et al., 1997, J. Interferon & Cytokine Res., 17, 503-524; Adah et al., 2001, Curr. Med. Chem., 8, 1189).

The presence of long dsRNAs in cells stimulates the activity of a ribonuclease III enzyme referred to as dicer (Bass, 2000, Cell, 101, 235; Zamore et al., 2000, Cell, 101, 25-33; Hammond et al., 2000, Nature, 404, 293). Dicer is involved in the processing of the dsRNA into short pieces of dsRNA known as short interfering RNAs (siRNAs) (Zamore et al., 2000, Cell, 101, 25-33; Bass, 2000, Cell, 101, 235; Berstein et al., 2001, Nature, 409, 363). Short interfering RNAs derived from dicer activity are typically about 21 to about 23 nucleotides in length and comprise about 19 base pair duplexes (Zamore et al., 2000, Cell, 101, 25-33; Elbashir et al., 2001, Genes Dev., 15, 188). Dicer has also been implicated in the excision of 21- and 22-nucleotide small temporal RNAs (stRNAs) from precursor RNA of conserved structure that are implicated in translational control (Hutvagner et al., 2001, Science, 293, 834). The RNAi response also features an endonuclease complex, commonly referred to as an RNA-induced silencing complex (RISC), which mediates cleavage of single-stranded RNA having sequence complementary to the antisense strand of the siRNA duplex. Cleavage of the target RNA takes place in the middle of the region complementary to the antisense strand of the siRNA duplex (Elbashir et al., 2001, Genes Dev., 15, 188).

RNAi has been studied in a variety of systems. Fire et al., 1998, Nature, 391, 806, were the first to observe RNAi in C. elegans. Bahramian and Zarbl, 1999, Molecular and Cellular Biology, 19, 274-283 and Wianny and Goetz, 1999, Nature Cell Biol., 2, 70, describe RNAi mediated by dsRNA in mammalian systems. Hammond et al., 2000, Nature, 404, 293, describe RNAi in Drosophila cells transfected with dsRNA. Elbashir

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et al., 2001, Nature, 411, 494 and Tuschl et al., International PCT Publication No. WU 01/75164, describe RNAi induced by introduction of duplexes of synthetic 21-nucleotide RNAs in cultured mammalian cells including human embryonic kidney and HeLa cells. Recent work in Drosophila embryonic lysates (Elbashir et al., 2001, EMBO J., 20, 6877 and Tuschl et al., International PCT Publication No. WO 01/75164) has revealed certain requirements for siRNA length, structure, chemical composition, and sequence that are essential to mediate efficient RNAi activity. These studies have shown that 21nucleotide siRNA duplexes are most active when containing 3'-terminal dinucleotide overhangs. Furthermore, complete substitution of one or both siRNA strands with 2'deoxy (2'-H) or 2'-O-methyl nucleotides abolishes RNAi activity, whereas substitution of the 3'-terminal siRNA overhang nucleotides with 2'-deoxy nucleotides (2'-H) was shown to be tolerated. Single mismatch sequences in the center of the siRNA duplex were also shown to abolish RNAi activity. In addition, these studies also indicate that the position of the cleavage site in the target RNA is defined by the 5'-end of the siRNA guide sequence rather than the 3'-end of the guide sequence (Elbashir et al., 2001, EMBO J., 20, 6877). Other studies have indicated that a 5'-phosphate on the target-complementary strand of a siRNA duplex is required for siRNA activity and that ATP is utilized to maintain the 5'-phosphate moiety on the siRNA (Nykanen et al., 2001, Cell, 107, 309).

Studies have shown that replacing the 3'-terminal nucleotide overhanging segments 3'-overhangs with two-nucleotide duplex having siRNA of deoxyribonucleotides does not have an adverse effect on RNAi activity. Replacing up to four nucleotides on each end of the siRNA with deoxyribonucleotides has been reported to be well tolerated, whereas complete substitution with deoxyribonucleotides results in no RNAi activity (Elbashir et al., 2001, EMBO J., 20, 6877 and Tuschl et al., International PCT Publication No. WO 01/75164). In addition, Elbashir et al., supra, also report that substitution of siRNA with 2'-O-methyl nucleotides completely abolishes RNAi activity. Li et al., International PCT Publication No. WO 00/44914, and Beach et al., International PCT Publication No. WO 01/68836 preliminarily suggest that siRNA may include modifications to either the phosphate-sugar backbone or the nucleoside to include at least one of a nitrogen or sulfur heteroatom, however, neither application postulates to what extent such modifications would be tolerated in siRNA molecules, nor provides any further guidance or examples of such modified siRNA. Kreutzer et al.,

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Canadian Patent Application No. 2,359,180, also describe certain chemical modifications for use in dsRNA constructs in order to counteract activation of double-stranded RNA-dependent protein kinase PKR, specifically 2'-amino or 2'-O-methyl nucleotides, and nucleotides containing a 2'-O or 4'-C methylene bridge. However, Kreutzer *et al.* similarly fails to provide examples or guidance as to what extent these modifications would be tolerated in dsRNA molecules.

Parrish et al., 2000, Molecular Cell, 6, 1077-1087, tested certain chemical modifications targeting the unc-22 gene in C. elegans using long (>25 nt) siRNA transcripts. The authors describe the introduction of thiophosphate residues into these siRNA transcripts by incorporating thiophosphate nucleotide analogs with T7 and T3 RNA polymerase and observed that RNAs with two phosphorothicate modified bases also had substantial decreases in effectiveness as RNAi. Further, Parrish et al. reported that phosphorothicate modification of more than two residues greatly destabilized the RNAs in vitro such that interference activities could not be assayed. Id. at 1081. The authors also tested certain modifications at the 2'-position of the nucleotide sugar in the long siRNA transcripts and found that substituting deoxynucleotides for ribonucleotides produced a substantial decrease in interference activity, especially in the case of Uridine to Thymidine and/or Cytidine to deoxy-Cytidine substitutions. Id. In addition, the authors tested certain base modifications, including substituting, in sense and antisense strands of the siRNA, 4-thiouracil, 5-bromouracil, 5-iodouracil, and 3-(aminoallyl)uracil for uracil, and inosine for guanosine. Whereas 4-thiouracil and 5-bromouracil substitution appeared to be tolerated, Parrish reported that inosine produced a substantial decrease in interference activity when incorporated in either strand. Parrish also reported that incorporation of 5-iodouracil and 3-(aminoallyl)uracil in the antisense strand resulted in a substantial decrease in RNAi activity as well.

The use of longer dsRNA has been described. For example, Beach *et al.*, International PCT Publication No. WO 01/68836, describes specific methods for attenuating gene expression using endogenously-derived dsRNA. Tuschl *et al.*, International PCT Publication No. WO 01/75164, describe a *Drosophila in vitro* RNAi system and the use of specific siRNA molecules for certain functional genomic and certain therapeutic applications; although Tuschl, 2001, *Chem. Biochem.*, 2, 239-245,

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doubts that RNA1 can be used to cure genetic diseases or viral infection due to the danger of activating interferon response. Li et al., International PCT Publication No. WO 00/44914, describe the use of specific long (141 bp-488 bp) enzymatically synthesized or vector expressed dsRNAs for attenuating the expression of certain target genes. Zernicka-Goetz et al., International PCT Publication No. WO 01/36646, describe certain methods for inhibiting the expression of particular genes in mammalian cells using certain long (550 bp-714 bp), enzymatically synthesized or vector expressed dsRNA molecules. Fire et al., International PCT Publication No. WO 99/32619, describe particular methods for introducing certain long dsRNA molecules into cells for use in inhibiting gene expression in nematodes. Plaetinck et al., International PCT Publication No. WO 00/01846, describe certain methods for identifying specific genes responsible for conferring a particular phenotype in a cell using specific long dsRNA molecules. Mello et al., International PCT Publication No. WO 01/29058, describe the identification of specific genes involved in dsRNA-mediated RNAi. Pachuck et al., International PCT Publication No. WO 00/63364, describe certain long (at least 200 nucleotide) dsRNA constructs. Deschamps Depaillette et al., International PCT Publication No. WO 99/07409, describe specific compositions consisting of particular dsRNA molecules Waterhouse et al., International PCT combined with certain anti-viral agents. Publication No. 99/53050 and 1998, PNAS, 95, 13959-13964, describe certain methods for decreasing the phenotypic expression of a nucleic acid in plant cells using certain dsRNAs. Driscoll et al., International PCT Publication No. WO 01/49844, describe specific DNA expression constructs for use in facilitating gene silencing in targeted organisms.

Others have reported on various RNAi and gene-silencing systems. For example, Parrish et al., 2000, Molecular Cell, 6, 1077-1087, describe specific chemically-modified dsRNA constructs targeting the unc-22 gene of C. elegans. Grossniklaus, International PCT Publication No. WO 01/38551, describes certain methods for regulating polycomb gene expression in plants using certain dsRNAs. Churikov et al., International PCT Publication No. WO 01/42443, describe certain methods for modifying genetic characteristics of an organism using certain dsRNAs. Cogoni et al., International PCT Publication No. WO 01/53475, describe certain methods for isolating a Neurospora silencing gene and uses thereof. Reed et al., International PCT Publication No. WO

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01/68836, describe certain methods for gene silencing in plants. Honer et al., International PCT Publication No. WO 01/70944, describe certain methods of drug screening using transgenic nematodes as Parkinson's Disease models using certain dsRNAs. Deak et al., International PCT Publication No. WO 01/72774, describe certain Drosophila-derived gene products that may be related to RNAi in Drosophila. Arndt et al., International PCT Publication No. WO 01/92513 describe certain methods for mediating gene suppression by using factors that enhance RNAi. Tuschl et al., International PCT Publication No. WO 02/44321, describe certain synthetic siRNA constructs. Pachuk et al., International PCT Publication No. WO 00/63364, and Satishchandran et al., International PCT Publication No. WO 01/04313, describe certain methods and compositions for inhibiting the function of certain polynucleotide sequences using certain long (over 250 bp), vector expressed dsRNAs. Echeverri et al., International PCT Publication No. WO 02/38805, describe certain C. elegans genes identified via RNAi. Kreutzer et al., International PCT Publications Nos. WO 02/055692, WO 02/055693, and EP 1144623 B1 describes certain methods for inhibiting gene expression using dsRNA. Graham et al., International PCT Publications Nos. WO 99/49029 and WO 01/70949, and AU 4037501 describe certain vector expressed siRNA molecules. Fire et al., US 6,506,559, describe certain methods for inhibiting gene expression in vitro using certain long dsRNA (299 bp-1033 bp) constructs that mediate RNAi. Martinez et al., 2002, Cell, 110, 563-574, describe certain single stranded siRNA constructs, including certain 5'-phosphorylated single stranded siRNAs that mediate RNA interference in Hela cells. Harborth et al., 2003, Antisense & Nucleic Acid Drug Development, 13, 83-105, describe certain chemically and structurally modified siRNA molecules. Chiu and Rana, 2003, RNA, 9, 1034-1048, describe certain chemically and structurally modified siRNA molecules. Woolf et al., International PCT Publication Nos. WO 03/064626 and WO 03/064625 describe certain chemically modified dsRNA constructs.

SUMMARY OF THE INVENTION

This invention relates to compounds, compositions, and methods useful for modulating gene expression using short interfering nucleic acid (siNA) molecules. This invention also relates to compounds, compositions, and methods useful for modulating

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the expression and activity of other genes involved in pathways of gene expression and/or activity by RNA interference (RNAi) using small nucleic acid molecules. In particular, the instant invention features small nucleic acid molecules, such as short interfering nucleic acid (siNA), short interfering RNA (siRNA), double-stranded RNA (dsRNA), micro-RNA (miRNA), and short hairpin RNA (shRNA) molecules and methods used to modulate the expression of genes, including gene targets having RNA transcripts referred to by Genbank Accession Numbers shown in **Table I**.

A siNA of the invention can be unmodified or chemically-modified. A siNA of the instant invention can be chemically synthesized, expressed from a vector or enzymatically synthesized. The instant invention also features various chemically-modified synthetic short interfering nucleic acid (siNA) molecules capable of modulating target gene expression or activity in cells by RNA interference (RNAi). The use of chemically-modified siNA improves various properties of native siNA molecules through increased resistance to nuclease degradation *in vivo* and/or through improved cellular uptake. Further, contrary to earlier published studies, siNA having multiple chemical modifications retains its RNAi activity. The siNA molecules of the instant invention provide useful reagents and methods for a variety of therapeutic, veterinary, diagnostic, target validation, genomic discovery, genetic engineering, and pharmacogenomic applications.

In one embodiment, the invention features one or more siNA molecules and methods that independently or in combination modulate the expression of target genes encoding proteins, such as proteins that are associated with the maintenance and/or development of diseases, traits, disorders, and/or conditions as described herein or otherwise known in the art, such as genes encoding sequences comprising those sequences referred to by GenBank Accession Nos. shown in **Table I**, referred to herein generally as "target". The description below of the various aspects and embodiments of the invention is provided with reference to exemplary target genes referred to herein as gene targets. However, the various aspects and embodiments are also directed to other genes, such as gene homologs, transcript variants, and polymorphisms (e.g., single nucleotide polymorphism, (SNPs)) associated with certain genes. As such, the various aspects and embodiments are also directed to other genes that are involved in disease,

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trait, condition, or disorder related pathways of signal transduction or gene expression that are involved, for example, in the maintenence or development of diseases, traits, conditions, or disorders described herein. These additional genes can be analyzed for target sites using the methods described for exemplary genes herein. Thus, the modulation of other genes and the effects of such modulation of the other genes can be performed, determined, and measured as described herein.

In one embodiment, the invention features a double-stranded short interfering nucleic acid (siNA) molecule that down-regulates expression of a target gene or that directs cleavage of a target RNA, wherein said siNA molecule comprises about 15 to about 28 base pairs.

In one embodiment, the invention features a double stranded short interfering nucleic acid (siNA) molecule that directs cleavage of a target RNA via RNA interference (RNAi), wherein the double stranded siNA molecule comprises a first and a second strand, each strand of the siNA molecule is about 18 to about 28 nucleotides in length, the first strand of the siNA molecule comprises nucleotide sequence having sufficient complementarity to the target RNA for the siNA molecule to direct cleavage of the target RNA via RNA interference, and the second strand of said siNA molecule comprises nucleotide sequence that is complementary to the first strand.

In one embodiment, the invention features a double stranded short interfering nucleic acid (siNA) molecule that directs cleavage of a target RNA via RNA interference (RNAi), wherein the double stranded siNA molecule comprises a first and a second strand, each strand of the siNA molecule is about 18 to about 23 nucleotides in length, the first strand of the siNA molecule comprises nucleotide sequence having sufficient complementarity to the target RNA for the siNA molecule to direct cleavage of the target RNA via RNA interference, and the second strand of said siNA molecule comprises nucleotide sequence that is complementary to the first strand.

In one embodiment, the invention features a chemically synthesized double stranded short interfering nucleic acid (siNA) molecule that directs cleavage of a target RNA via RNA interference (RNAi), wherein each strand of the siNA molecule is about 18 to about 28 nucleotides in length; and one strand of the siNA molecule comprises

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nucleotide sequence having sufficient complementarity to the target RNA for the siNA molecule to direct cleavage of the target RNA via RNA interference.

In one embodiment, the invention features a chemically synthesized double stranded short interfering nucleic acid (siNA) molecule that directs cleavage of a target RNA via RNA interference (RNAi), wherein each strand of the siNA molecule is about 18 to about 23 nucleotides in length; and one strand of the siNA molecule comprises nucleotide sequence having sufficient complementarity to the target RNA for the siNA molecule to direct cleavage of the target RNA via RNA interference.

In one embodiment, the invention features a siNA molecule that down-regulates expression of a target gene or that directs cleavage of a target RNA, for example, wherein the gene comprises protein encoding sequence. In one embodiment, the invention features a siNA molecule that down-regulates expression of a target gene or that directs cleavage of a target RNA, for example, wherein the gene comprises non-coding sequence or encodes sequence of regulatory elements involved in gene expression (e.g., non-coding RNA).

In one embodiment, a siNA of the invention is used to inhibit the expression of target genes or a target gene family, wherein the genes or gene family sequences share sequence homology. Such homologous sequences can be identified as is known in the art, for example using sequence alignments. siNA molecules can be designed to target such homologous sequences, for example using perfectly complementary sequences or by incorporating non-canonical base pairs, for example mismatches and/or wobble base pairs, that can provide additional target sequences. In instances where mismatches are identified, non-canonical base pairs (for example, mismatches and/or wobble bases) can be used to generate siNA molecules that target more than one gene sequence. In a nonlimiting example, non-canonical base pairs such as UU and CC base pairs are used to generate siNA molecules that are capable of targeting sequences for differing targets that share sequence homology. As such, one advantage of using siNAs of the invention is that a single siNA can be designed to include nucleic acid sequence that is complementary to the nucleotide sequence that is conserved between the homologous genes. In this approach, a single siNA can be used to inhibit expression of more than one gene instead of using more than one siNA molecule to target the different genes.

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In one embodiment, a target RNA of the invention is an expressed pseudogene (see for example pseudogene sequences referred to by Genbank Accession Numbers in **Table**I). As used herein the term "disease related expressed pseudogene" refers to any expressed pseudogene that is associated with a disease, disorder, condition, or trait.

In one embodiment, the invention features a siNA molecule having RNAi activity against target RNA (e.g., coding or non-coding RNA), wherein the siNA molecule comprises a sequence complementary to any RNA sequence, such as those sequences having GenBank Accession Nos. shown in Table I. In another embodiment, the invention features a siNA molecule having RNAi activity against target RNA, wherein the siNA molecule comprises a sequence complementary to an RNA having variant encoding sequence, for example other mutant genes not shown in Table I but known in the art to be associated with the maintenance and/or development of diseases, traits, disorders, and/or conditions described herein or otherwise known in the art. Chemical modifications as shown in Table II or otherwise described herein can be applied to any siNA construct of the invention. In another embodiment, a siNA molecule of the invention includes a nucleotide sequence that can interact with nucleotide sequence of a target gene and thereby mediate silencing of gene expression, for example, wherein the siNA mediates regulation of gene expression by cellular processes that modulate the chromatin structure or methylation patterns of the gene and prevent transcription of the gene.

In one embodiment, siNA molecules of the invention are used to down regulate or inhibit the expression of proteins arising from haplotype polymorphisms that are associated with a disease or condition. Analysis of genes, or protein or RNA levels can be used to identify subjects with such polymorphisms or those subjects who are at risk of developing traits, conditions, or diseases described herein. These subjects are amenable to treatment, for example, treatment with siNA molecules of the invention and any other composition useful in treating diseases related to gene expression. As such, analysis of protein or RNA levels can be used to determine treatment type and the course of therapy in treating a subject. Monitoring of protein or RNA levels can be used to predict treatment outcome and to determine the efficacy of compounds and compositions that

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modulate the level and/or activity of certain proteins associated with a trait, disorder, condition, or disease.

In one embodiment of the invention a siNA molecule comprises an antisense strand comprising a nucleotide sequence that is complementary to a target polynucleotide sequence or a portion thereof. The siNA further comprises a sense strand, wherein said sense strand comprises a nucleotide sequence of a target polynucleotide sequence or a portion thereof, (e.g., about 15 to about 25 or more, or about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, or 25 or more contiguous nucleotides in a target polynucleotide sequence). In one embodiment, the target polynucleotide sequence is a target DNA. In one embodiment, the target polynucleotide sequence is a target RNA.

In one embodiment, the invention features a siNA molecule comprising a first sequence, for example, the antisense sequence of the siNA construct, complementary to a sequence or portion of sequence comprising sequence represented by GenBank Accession Nos. shown in **Table I**, and a second sequence, for example a sense sequence, that is complementary to the antisense sequence. Chemical modifications in **Table II** and described herein can be applied to any siNA construct (e.g., sense or antisenase sequence) of the invention.

In one embodiment of the invention a siNA molecule comprises an antisense strand having about 15 to about 30 (e.g., about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30) nucleotides, wherein the antisense strand is complementary to a target RNA sequence or a portion thereof, and wherein said siNA further comprises a sense strand having about 15 to about 30 (e.g., about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30) nucleotides, and wherein said sense strand and said antisense strand are distinct nucleotide sequences where at least about 15 nucleotides in each strand are complementary to the other strand.

In another embodiment of the invention a siNA molecule of the invention comprises an antisense region having about 15 to about 30 (e.g., about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30) nucleotides, wherein the antisense region is complementary to a target DNA sequence, and wherein said siNA further comprises a sense region having about 15 to about 30 (e.g., about 15, 16, 17, 18, 19, 20, 21, 22, 23,

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27, 23, 20, 27, 26, 29, or 30) nucleotides, wherein said sense region and said antisense region are comprised in a linear molecule where the sense region comprises at least about 15 nucleotides that are complementary to the antisense region.

In one embodiment, a siNA molecule of the invention has RNAi activity that modulates expression of RNA encoded by one or more genes. Because various genes can share some degree of sequence homology with each other, siNA molecules can be designed to target a class of genes or alternately specific genes (e.g., polymorphic variants) by selecting sequences that are either shared amongst different gene targets or alternatively that are unique for a specific gene target. Therefore, in one embodiment, the siNA molecule can be designed to target conserved regions of target RNA sequences having homology among several gene variants so as to target a class of genes with one siNA molecule. Accordingly, in one embodiment, the siNA molecule of the invention modulates the expression of one or both gene alleles in a subject. In another embodiment, the siNA molecule can be designed to target a sequence that is unique to a specific target RNA sequence (e.g., a single allele or single nucleotide polymorphism (SNP)) due to the high degree of specificity that the siNA molecule requires to mediate RNAi activity.

In one embodiment, nucleic acid molecules of the invention that act as mediators of the RNA interference gene silencing response are double-stranded nucleic acid molecules. In another embodiment, the siNA molecules of the invention consist of duplex nucleic acid molecules containing about 15 to about 30 base pairs between oligonucleotides comprising about 15 to about 30 (e.g., about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30) nucleotides. In yet another embodiment, siNA molecules of the invention comprise duplex nucleic acid molecules with overhanging ends of about 1 to about 3 (e.g., about 1, 2, or 3) nucleotides, for example, about 21-nucleotide duplexes with about 19 base pairs and 3'-terminal mononucleotide, dinucleotide, or trinucleotide overhangs. In yet another embodiment, siNA molecules of the invention comprise duplex nucleic acid molecules with blunt ends, where both ends are blunt, or alternatively, where one of the ends is blunt.

In one embodiment, the invention features one or more chemically-modified siNA constructs having specificity for a target polynucleotide (e.g., RNA or DNA), such as

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DIVA encoding KIVA sequences referred to herein by Genbank Accession number or such RNA sequences referred to herein by Genbank Accession number. In one embodiment, the invention features a RNA based siNA molecule (e.g., a siNA comprising 2'-OH nucleotides) having specificity for target polynucleotides (e.g., RNA or DNA) that includes one or more chemical modifications described herein. Nonlimiting examples of such chemical modifications include without limitation phosphorothioate internucleotide linkages, 2'-deoxyribonucleotides, 2'-O-methyl ribonucleotides, 2'-deoxy-2'-fluoro ribonucleotides, "universal base" nucleotides, "acyclic" nucleotides, 5-C-methyl nucleotides, and terminal glyceryl and/or inverted deoxy abasic residue incorporation. These chemical modifications, when used in various siNA constructs, (e.g., RNA based siNA constructs), are shown to preserve RNAi activity in cells while at the same time, dramatically increasing the serum stability of these compounds. Furthermore, contrary to the data published by Parrish et al., supra, applicant demonstrates that multiple (greater than one) phosphorothicate substitutions are well-tolerated and confer substantial increases in serum stability for modified siNA constructs.

In one embodiment, a siNA molecule of the invention comprises modified nucleotides while maintaining the ability to mediate RNAi. The modified nucleotides can be used to improve *in vitro* or *in vivo* characteristics such as stability, activity, and/or bioavailability. For example, a siNA molecule of the invention can comprise modified nucleotides as a percentage of the total number of nucleotides present in the siNA molecule. As such, a siNA molecule of the invention can generally comprise about 5% to about 100% modified nucleotides (e.g., about 5%, 10%, 15%, 20%, 25%, 30%, 35%, 40%, 45%, 50%, 55%, 60%, 65%, 70%, 75%, 80%, 85%, 90%, 95% or 100% modified nucleotides). The actual percentage of modified nucleotides present in a given siNA molecule will depend on the total number of nucleotides present in the siNA. If the siNA molecule is single stranded, the percent modification can be based upon the total number of nucleotides present in the sinA molecule is double stranded, the percent modification can be based upon the total number of nucleotides present in the single stranded siNA molecules. Likewise, if the siNA molecule is double stranded, the percent modification can be based upon the total number of nucleotides present in the sense strand, antisense strand, or both the sense and antisense strands.

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One aspect of the invention features a double-stranded short interfering nucleic acid (siNA) molecule that down-regulates expression of a target gene or that directs cleavage of a target RNA. In one embodiment, the double stranded siNA molecule comprises one or more chemical modifications and each strand of the double-stranded siNA is about 21 nucleotides long. In one embodiment, the double-stranded siNA molecule does not contain any ribonucleotides. In another embodiment, the doublestranded siNA molecule comprises one or more ribonucleotides. In one embodiment, each strand of the double-stranded siNA molecule independently comprises about 15 to about 30 (e.g., about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30) nucleotides, wherein each strand comprises about 15 to about 30 (e.g., about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30) nucleotides that are complementary to the nucleotides of the other strand. In one embodiment, one of the strands of the double-stranded siNA molecule comprises a nucleotide sequence that is complementary to a nucleotide sequence or a portion thereof of the gene, and the second strand of the double-stranded siNA molecule comprises a nucleotide sequence substantially similar to the nucleotide sequence of the gene or a portion thereof.

In another embodiment, the invention features a double-stranded short interfering nucleic acid (siNA) molecule that down-regulates expression of a target gene or that directs cleavage of a target RNA, comprising an antisense region, wherein the antisense region comprises a nucleotide sequence that is complementary to a nucleotide sequence of the gene or a portion thereof, and a sense region, wherein the sense region comprises a nucleotide sequence substantially similar to the nucleotide sequence of the gene or a portion thereof. In one embodiment, the antisense region and the sense region independently comprise about 15 to about 30 (e.g. about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30) nucleotides, wherein the antisense region comprises about 15 to about 30 (e.g. about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30) nucleotides that are complementary to nucleotides of the sense region.

In another embodiment, the invention features a double-stranded short interfering nucleic acid (siNA) molecule that down-regulates expression of a target gene or that directs cleavage of a target RNA, comprising a sense region and an antisense region, wherein the antisense region comprises a nucleotide sequence that is complementary to a

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nucleotide sequence of RNA encoded by the gene or a portion thereof and the sense region comprises a nucleotide sequence that is complementary to the antisense region.

In one embodiment, a siNA molecule of the invention comprises blunt ends, i.e., ends that do not include any overhanging nucleotides. For example, a siNA molecule comprising modifications described herein (e.g., comprising nucleotides having Formulae I-VII or siNA constructs comprising "Stab 00"-"Stab 32" (Table II) or any combination thereof (see Table II)) and/or any length described herein can comprise blunt ends or ends with no overhanging nucleotides.

In one embodiment, any siNA molecule of the invention can comprise one or more blunt ends, i.e. where a blunt end does not have any overhanging nucleotides. In one embodiment, the blunt ended siNA molecule has a number of base pairs equal to the number of nucleotides present in each strand of the siNA molecule. In another embodiment, the siNA molecule comprises one blunt end, for example wherein the 5'end of the antisense strand and the 3'-end of the sense strand do not have any overhanging nucleotides. In another example, the siNA molecule comprises one blunt end, for example wherein the 3'-end of the antisense strand and the 5'-end of the sense strand do not have any overhanging nucleotides. In another example, a siNA molecule comprises two blunt ends, for example wherein the 3'-end of the antisense strand and the 5'-end of the sense strand as well as the 5'-end of the antisense strand and 3'-end of the sense strand do not have any overhanging nucleotides. A blunt ended siNA molecule can comprise, for example, from about 15 to about 30 nucleotides (e.g., about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30 nucleotides). Other nucleotides present in a blunt ended siNA molecule can comprise, for example, mismatches, bulges, loops, or wobble base pairs to modulate the activity of the siNA molecule to mediate RNA interference.

By "blunt ends" is meant symmetric termini or termini of a double stranded siNA molecule having no overhanging nucleotides. The two strands of a double stranded siNA molecule align with each other without over-hanging nucleotides at the termini. For example, a blunt ended siNA construct comprises terminal nucleotides that are complementary between the sense and antisense regions of the siNA molecule.

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In one embodiment, the invention features a double-stranded short interfering nucleic acid (siNA) molecule that down-regulates expression of a target gene or that directs cleavage of a target RNA, wherein the siNA molecule is assembled from two separate oligonucleotide fragments wherein one fragment comprises the sense region and the second fragment comprises the antisense region of the siNA molecule. The sense region can be connected to the antisense region via a linker molecule, such as a polynucleotide linker or a non-nucleotide linker.

In one embodiment, the invention features double-stranded short interfering nucleic acid (siNA) molecule that down-regulates expression of a target gene or that directs cleavage of a target RNA, wherein the siNA molecule comprises about 15 to about 30 (e.g. about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30) base pairs, and wherein each strand of the siNA molecule comprises one or more chemical modifications. In another embodiment, one of the strands of the double-stranded siNA molecule comprises a nucleotide sequence that is complementary to a nucleotide sequence of a gene or a portion thereof, and the second strand of the double-stranded siNA molecule comprises a nucleotide sequence substantially similar to the nucleotide sequence or a portion thereof of the gene. In another embodiment, one of the strands of the double-stranded siNA molecule comprises a nucleotide sequence that is complementary to a nucleotide sequence of a gene or portion thereof, and the second strand of the double-stranded siNA molecule comprises a nucleotide sequence substantially similar to the nucleotide sequence or portion thereof of the gene. In another embodiment, each strand of the siNA molecule comprises about 15 to about 30 (e.g. about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30) nucleotides, and each strand comprises at least about 15 to about 30 (e.g. about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30) nucleotides that are complementary to the nucleotides of the other strand. The gene can comprise, for example, a gene that encodes sequences referred to in Table I.

In one embodiment, a siNA molecule of the invention comprises no ribonucleotides. In another embodiment, a siNA molecule of the invention comprises ribonucleotides.

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In one embodiment, a siNA molecule of the invention comprises an antisense region comprising a nucleotide sequence that is complementary to a nucleotide sequence of a target gene or a portion thereof, and the siNA further comprises a sense region comprising a nucleotide sequence substantially similar to the nucleotide sequence of the target gene or a portion thereof. In another embodiment, the antisense region and the sense region each comprise about 15 to about 30 (e.g. about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30) nucleotides and the antisense region comprises at least about 15 to about 30 (e.g. about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30) nucleotides that are complementary to nucleotides of the sense region. The target gene can comprise, for example, sequence encoding sequences referred to in Table I. In another embodiment, the siNA is a double stranded nucleic acid molecule, where each of the two strands of the siNA molecule independently comprise about 15 to about 40 (e.g. about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 23, 33, 34, 35, 36, 37, 38, 39, or 40) nucleotides, and where one of the strands of the siNA molecule comprises at least about 15 (e.g. about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 or 25 or more) nucleotides that are complementary to the nucleic acid sequence of the gene or a portion thereof.

In one embodiment, a siNA molecule of the invention comprises a sense region and an antisense region, wherein the antisense region comprises a nucleotide sequence that is complementary to a nucleotide sequence of RNA encoded by a target gene, or a portion thereof, and the sense region comprises a nucleotide sequence that is complementary to the antisense region. In one embodiment, the siNA molecule is assembled from two separate oligonucleotide fragments, wherein one fragment comprises the sense region and the second fragment comprises the antisense region of the siNA molecule. In another embodiment, the sense region is connected to the antisense region via a linker molecule. In another embodiment, the sense region is connected to the antisense region via a linker molecule, such as a nucleotide or non-nucleotide linker. The target gene can comprise, for example, sequence encoding sequences referred in to Table I.

In one embodiment, the invention features a double-stranded short interfering nucleic acid (siNA) molecule that down-regulates expression of a target gene or that

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directs cleavage of a target RNA comprising a sense region and an antisense region, wherein the antisense region comprises a nucleotide sequence that is complementary to a nucleotide sequence of RNA encoded by the target gene or a portion thereof and the sense region comprises a nucleotide sequence that is complementary to the antisense region, and wherein the siNA molecule has one or more modified pyrimidine and/or purine nucleotides. In one embodiment, the pyrimidine nucleotides in the sense region are 2'-O-methyl pyrimidine nucleotides or 2'-deoxy-2'-fluoro pyrimidine nucleotides and the purine nucleotides present in the sense region are 2'-deoxy purine nucleotides. In another embodiment, the pyrimidine nucleotides in the sense region are 2'-deoxy-2'fluoro pyrimidine nucleotides and the purine nucleotides present in the sense region are 2'-O-methyl purine nucleotides. In another embodiment, the pyrimidine nucleotides in the sense region are 2'-deoxy-2'-fluoro pyrimidine nucleotides and the purine nucleotides present in the sense region are 2'-deoxy purine nucleotides. In one embodiment, the pyrimidine nucleotides in the antisense region are 2'-deoxy-2'-fluoro pyrimidine nucleotides and the purine nucleotides present in the antisense region are 2'-O-methyl or 2'-deoxy purine nucleotides. In another embodiment of any of the above-described siNA molecules, any nucleotides present in a non-complementary region of the sense strand (e.g. overhang region) are 2'-deoxy nucleotides.

In one embodiment, the invention features a double-stranded short interfering nucleic acid (siNA) molecule that down-regulates expression of a target gene or that directs cleavage of a target RNA, wherein the siNA molecule is assembled from two separate oligonucleotide fragments wherein one fragment comprises the sense region and the second fragment comprises the antisense region of the siNA molecule, and wherein the fragment comprising the sense region includes a terminal cap moiety at the 5'-end, the 3'-end, or both of the 5' and 3' ends of the fragment. In one embodiment, the terminal cap moiety is an inverted deoxy abasic moiety or glyceryl moiety. In one embodiment, each of the two fragments of the siNA molecule independently comprise about 15 to about 30 (e.g. about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30) nucleotides. In another embodiment, each of the two fragments of the siNA molecule independently comprise about 15 to about 40 (e.g. about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 23, 33, 34, 35, 36, 37, 38, 39, or 40) nucleotides. In a

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non-limiting example, each of the two fragments of the siNA molecule comprise about 21 nucleotides.

In one embodiment, the invention features a siNA molecule comprising at least one modified nucleotide, wherein the modified nucleotide is a 2'-deoxy-2'-fluoro nucleotide. The siNA can be, for example, about 15 to about 40 nucleotides in length. In one embodiment, all pyrimidine nucleotides present in the siNA are 2'-deoxy-2'-fluoro pyrimidine nucleotides. In one embodiment, the modified nucleotides in the siNA include at least one 2'-deoxy-2'-fluoro cytidine or 2'-deoxy-2'-fluoro uridine nucleotide. In another embodiment, the modified nucleotides in the siNA include at least one 2'fluoro cytidine and at least one 2'-deoxy-2'-fluoro uridine nucleotides. embodiment, all uridine nucleotides present in the siNA are 2'-deoxy-2'-fluoro uridine nucleotides. In one embodiment, all cytidine nucleotides present in the siNA are 2'deoxy-2'-fluoro cytidine nucleotides. In one embodiment, all adenosine nucleotides present in the siNA are 2'-deoxy-2'-fluoro adenosine nucleotides. In one embodiment, all guanosine nucleotides present in the siNA are 2'-deoxy-2'-fluoro guanosine nucleotides. The siNA can further comprise at least one modified internucleotidic linkage, such as phosphorothioate linkage. In one embodiment, the 2'-deoxy-2'fluoronucleotides are present at specifically selected locations in the siNA that are sensitive to cleavage by ribonucleases, such as locations having pyrimidine nucleotides.

In one embodiment, the invention features a method of increasing the stability of a siNA molecule against cleavage by ribonucleases comprising introducing at least one modified nucleotide into the siNA molecule, wherein the modified nucleotide is a 2'-deoxy-2'-fluoro nucleotide. In one embodiment, all pyrimidine nucleotides present in the siNA are 2'-deoxy-2'-fluoro pyrimidine nucleotides. In one embodiment, the modified nucleotides in the siNA include at least one 2'-deoxy-2'-fluoro cytidine or 2'-deoxy-2'-fluoro uridine nucleotide. In another embodiment, the modified nucleotides in the siNA include at least one 2'-fluoro cytidine and at least one 2'-deoxy-2'-fluoro uridine nucleotides. In one embodiment, all uridine nucleotides present in the siNA are 2'-deoxy-2'-fluoro cytidine nucleotides. In one embodiment, all cytidine nucleotides present in the siNA are 2'-deoxy-2'-fluoro cytidine nucleotides. In one embodiment, all adenosine nucleotides present in the siNA are 2'-deoxy-2'-fluoro adenosine nucleotides.

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In one embodiment, all guanosine nucleotides present in the siNA are 2'-deoxy-2'-fluoro guanosine nucleotides. The siNA can further comprise at least one modified internucleotidic linkage, such as phosphorothioate linkage. In one embodiment, the 2'-deoxy-2'-fluoronucleotides are present at specifically selected locations in the siNA that are sensitive to cleavage by ribonucleases, such as locations having pyrimidine nucleotides.

In one embodiment, the invention features a double-stranded short interfering nucleic acid (siNA) molecule that down-regulates expression of a target gene or that directs cleavage of a target RNA comprising a sense region and an antisense region, wherein the antisense region comprises a nucleotide sequence that is complementary to a nucleotide sequence of RNA encoded by the gene or a portion thereof and the sense region comprises a nucleotide sequence that is complementary to the antisense region, and wherein the purine nucleotides present in the antisense region comprise 2'-deoxy-purine nucleotides. In an alternative embodiment, the purine nucleotides present in the antisense region comprise 2'-O-methyl purine nucleotides. In either of the above embodiments, the antisense region can comprise a phosphorothioate internucleotide linkage at the 3' end of the antisense region. Alternatively, in either of the above embodiments, the antisense region can comprise a glyceryl modification at the 3' end of the antisense region. In another embodiment of any of the above-described siNA molecules, any nucleotides present in a non-complementary region of the antisense strand (e.g. overhang region) are 2'-deoxy nucleotides.

In one embodiment, the antisense region of a siNA molecule of the invention comprises sequence complementary to a portion of a target polynucleotide sequence having sequence unique to a particular disease related allele, such as sequence comprising a single nucleotide polymorphism (SNP) associated with the disease specific allele. As such, the antisense region of a siNA molecule of the invention can comprise sequence complementary to sequences that are unique to a particular allele to provide specificity in mediating selective RNAi against the disease, condition, or trait related allele.

In one embodiment, the invention features a double-stranded short interfering nucleic acid (siNA) molecule that down-regulates expression of a target gene or that

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directs cleavage of a target RNA, wherein the siNA molecule is assembled from two separate oligonucleotide fragments wherein one fragment comprises the sense region and the second fragment comprises the antisense region of the siNA molecule. In another embodiment, the siNA molecule is a double stranded nucleic acid molecule, where each strand is about 21 nucleotides long and where about 19 nucleotides of each fragment of the siNA molecule are base-paired to the complementary nucleotides of the other fragment of the siNA molecule, wherein at least two 3' terminal nucleotides of each fragment of the siNA molecule are not base-paired to the nucleotides of the other fragment of the siNA molecule. In another embodiment, the siNA molecule is a double stranded nucleic acid molecule, where each strand is about 19 nucleotide long and where the nucleotides of each fragment of the siNA molecule are base-paired to the complementary nucleotides of the other fragment of the siNA molecule to form at least about 15 (e.g., 15, 16, 17, 18, or 19) base pairs, wherein one or both ends of the siNA molecule are blunt ends. In one embodiment, each of the two 3' terminal nucleotides of each fragment of the siNA molecule is a 2'-deoxy-pyrimidine nucleotide, such as a 2'deoxy-thymidine. In another embodiment, all nucleotides of each fragment of the siNA molecule are base-paired to the complementary nucleotides of the other fragment of the siNA molecule. In another embodiment, the siNA molecule is a double stranded nucleic acid molecule of about 19 to about 25 base pairs having a sense region and an antisense region, where about 19 nucleotides of the antisense region are base-paired to the nucleotide sequence or a portion thereof of the RNA encoded by the target gene. In another embodiment, about 21 nucleotides of the antisense region are base-paired to the nucleotide sequence or a portion thereof of the RNA encoded by the target gene. In any of the above embodiments, the 5'-end of the fragment comprising said antisense region can optionally include a phosphate group.

In one embodiment, the invention features a double-stranded short interfering nucleic acid (siNA) molecule that inhibits the expression of a target RNA sequence (e.g., wherein said target RNA sequence is encoded by a gene involved in a pathway of gene expression), wherein the siNA molecule does not contain any ribonucleotides and wherein each strand of the double-stranded siNA molecule is about 15 to about 30 nucleotides. In one embodiment, the siNA molecule is 21 nucleotides in length. Examples of non-ribonucleotide containing siNA constructs are combinations of

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stabilization chemistries shown in **Table II** in any combination of Sense/Antisense chemistries, such as Stab 7/8, Stab 7/11, Stab 8/8, Stab 18/8, Stab 18/11, Stab 12/13, Stab 7/13, Stab 18/13, Stab 7/19, Stab 8/19, Stab 18/19, Stab 7/20, Stab 8/20, Stab 18/20, Stab 7/32, Stab 8/32, or Stab 18/32 (e.g., any siNA having Stab 7, 8, 11, 12, 13, 14, 15, 17, 18, 19, 20, or 32 sense or antisense strands or any combination thereof).

In one embodiment, the invention features a chemically synthesized double stranded RNA molecule that directs cleavage of a target RNA via RNA interference, wherein each strand of said RNA molecule is about 15 to about 30 nucleotides in length; one strand of the RNA molecule comprises nucleotide sequence having sufficient complementarity to the target RNA for the RNA molecule to direct cleavage of the target RNA via RNA interference; and wherein at least one strand of the RNA molecule optionally comprises one or more chemically modified nucleotides described herein, such as without limitation deoxynucleotides, 2'-O-methyl nucleotides, 2'-deoxy-2'-fluoro nucleotides, 2'-O-methoxyethyl nucleotides etc.

In one embodiment, a target RNA of the invention comprises sequence encoding a protein.

In one embodiment, target RNA of the invention comprises non-coding RNA sequence (e.g., miRNA, snRNA siRNA etc.).

In one embodiment, the invention features a medicament comprising a siNA molecule of the invention.

In one embodiment, the invention features an active ingredient comprising a siNA molecule of the invention.

In one embodiment, the invention features the use of a double-stranded short interfering nucleic acid (siNA) molecule to inhibit, down-regulate, or reduce expression of a gene or that directs cleavage of a target RNA, wherein the siNA molecule comprises one or more chemical modifications and each strand of the double-stranded siNA is independently about 15 to about 30 or more (e.g., about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29 or 30 or more) nucleotides long. In one embodiment, the siNA molecule of the invention is a double stranded nucleic acid molecule comprising one or

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more chemical modifications, where each of the two fragments of the siNA molecule independently comprise about 15 to about 40 (e.g. about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 23, 33, 34, 35, 36, 37, 38, 39, or 40) nucleotides and where one of the strands comprises at least 15 nucleotides that are complementary to nucleotide sequence of target RNA or a portion thereof. In a non-limiting example, each of the two fragments of the siNA molecule comprise about 21 nucleotides. In another embodiment, the siNA molecule is a double stranded nucleic acid molecule comprising one or more chemical modifications, where each strand is about 21 nucleotide long and where about 19 nucleotides of each fragment of the siNA molecule are base-paired to the complementary nucleotides of the other fragment of the siNA molecule, wherein at least two 3' terminal nucleotides of each fragment of the siNA molecule are not base-paired to the nucleotides of the other fragment of the siNA molecule. In another embodiment, the siNA molecule is a double stranded nucleic acid molecule comprising one or more chemical modifications, where each strand is about 19 nucleotide long and where the nucleotides of each fragment of the siNA molecule are base-paired to the complementary nucleotides of the other fragment of the siNA molecule to form at least about 15 (e.g., 15, 16, 17, 18, or 19) base pairs, wherein one or both ends of the siNA molecule are blunt ends. In one embodiment, each of the two 3' terminal nucleotides of each fragment of the siNA molecule is a 2'-deoxy-pyrimidine nucleotide, such as a 2'-deoxy-thymidine. In another embodiment, all nucleotides of each fragment of the siNA molecule are basepaired to the complementary nucleotides of the other fragment of the siNA molecule. In another embodiment, the siNA molecule is a double stranded nucleic acid molecule of about 19 to about 25 base pairs having a sense region and an antisense region and comprising one or more chemical modifications, where about 19 nucleotides of the antisense region are base-paired to the nucleotide sequence or a portion thereof of the RNA encoded by the target gene. In another embodiment, about 21 nucleotides of the antisense region are base-paired to the nucleotide sequence or a portion thereof of the RNA encoded by the target gene. In any of the above embodiments, the 5'-end of the fragment comprising said antisense region can optionally include a phosphate group.

In one embodiment, the invention features the use of a double-stranded short interfering nucleic acid (siNA) molecule that inhibits, down-regulates, or reduces expression of a target gene or that directs cleavage of a target RNA, wherein one of the

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strands of the double-stranded siNA molecule is an antisense strand which comprises nucleotide sequence that is complementary to nucleotide sequence of target RNA or a portion thereof, the other strand is a sense strand which comprises nucleotide sequence that is complementary to a nucleotide sequence of the antisense strand and wherein a majority of the pyrimidine nucleotides present in the double-stranded siNA molecule comprises a sugar modification (e.g., 2'-deoxy-2'-fluoro, 2'-O-methyl, or 2'-deoxy modifications).

In one embodiment, the invention features a double-stranded short interfering nucleic acid (siNA) molecule that inhibits, down-regulates, or reduces expression of a target gene or that directs cleavage of a target RNA, wherein one of the strands of the double-stranded siNA molecule is an antisense strand which comprises nucleotide sequence that is complementary to nucleotide sequence of target RNA or a portion thereof, wherein the other strand is a sense strand which comprises nucleotide sequence that is complementary to a nucleotide sequence of the antisense strand and wherein a majority of the pyrimidine nucleotides present in the double-stranded siNA molecule comprises a sugar modification (e.g., 2'-deoxy-2'-fluoro, 2'-O-methyl, or 2'-deoxy modificatins).

In one embodiment, the invention features a double-stranded short interfering nucleic acid (siNA) molecule that inhibits, down-regulates, or reduces expression of a gene or that directs cleavage of a target RNA, wherein one of the strands of the double-stranded siNA molecule is an antisense strand which comprises nucleotide sequence that is complementary to nucleotide sequence of target RNA that encodes a protein or portion thereof, the other strand is a sense strand which comprises nucleotide sequence that is complementary to a nucleotide sequence of the antisense strand and wherein a majority of the pyrimidine nucleotides present in the double-stranded siNA molecule comprises a sugar modification. In one embodiment, each strand of the siNA molecule comprises about 15 to about 30 or more (e.g., about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30 or more) nucleotides, wherein each strand comprises at least about 15 nucleotides that are complementary to the nucleotides of the other strand. In one embodiment, the siNA molecule is assembled from two oligonucleotide fragments, wherein one fragment comprises the nucleotide sequence of the antisense strand of the

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siNA molecule and a second fragment comprises nucleotide sequence of the sense region of the siNA molecule. In one embodiment, the sense strand is connected to the antisense strand via a linker molecule, such as a polynucleotide linker or a non-nucleotide linker. In a further embodiment, the pyrimidine nucleotides present in the sense strand are 2'deoxy-2'fluoro pyrimidine nucleotides and the purine nucleotides present in the sense region are 2'-deoxy purine nucleotides. In another embodiment, the pyrimidine nucleotides present in the sense strand are 2'-deoxy-2'fluoro pyrimidine nucleotides and the purine nucleotides present in the sense region are 2'-O-methyl purine nucleotides. In still another embodiment, the pyrimidine nucleotides present in the antisense strand are 2'-deoxy-2'-fluoro pyrimidine nucleotides and any purine nucleotides present in the antisense strand are 2'-deoxy purine nucleotides. In another embodiment, the antisense strand comprises one or more 2'-deoxy-2'-fluoro pyrimidine nucleotides and one or more 2'-O-methyl purine nucleotides. In another embodiment, the pyrimidine nucleotides present in the antisense strand are 2'-deoxy-2'-fluoro pyrimidine nucleotides and any purine nucleotides present in the antisense strand are 2'-O-methyl purine nucleotides. In a further embodiment the sense strand comprises a 3'-end and a 5'-end, wherein a terminal cap moiety (e.g., an inverted deoxy abasic moiety or inverted deoxy nucleotide moiety such as inverted thymidine) is present at the 5'-end, the 3'-end, or both of the 5' and 3' ends of the sense strand. In another embodiment, the antisense strand comprises a phosphorothioate internucleotide linkage at the 3' end of the antisense strand. In another embodiment, the antisense strand comprises a glyceryl modification at the 3' end. In another embodiment, the 5'-end of the antisense strand optionally includes a phosphate group.

In any of the above-described embodiments of a double-stranded short interfering nucleic acid (siNA) molecule that inhibits expression of a target gene or that directs cleavage of a target RNA, wherein a majority of the pyrimidine nucleotides present in the double-stranded siNA molecule comprises a sugar modification, each of the two strands of the siNA molecule can comprise about 15 to about 30 or more (e.g., about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30 or more) nucleotides. In one embodiment, about 15 to about 30 or more (e.g., about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30 or more) nucleotides of each strand of the siNA molecule are base-paired to the complementary nucleotides of the other strand of the siNA molecule.

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In another embodiment, about 15 to about 30 or more (e.g., about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30 or more) nucleotides of each strand of the siNA molecule are base-paired to the complementary nucleotides of the other strand of the siNA molecule, wherein at least two 3' terminal nucleotides of each strand of the siNA molecule. In another embodiment, each of the two 3' terminal nucleotides of each fragment of the siNA molecule is a 2'-deoxy-pyrimidine, such as 2'-deoxy-thymidine. In one embodiment, each strand of the siNA molecule is base-paired to the complementary nucleotides of the other strand of the siNA molecule. In one embodiment, about 15 to about 30 (e.g., about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30) nucleotides of the antisense strand are base-paired to the nucleotide sequence of the target RNA or a portion thereof. In one embodiment, about 18 to about 25 (e.g., about 18, 19, 20, 21, 22, 23, 24, or 25) nucleotides of the antisense strand are base-paired to the nucleotide sequence of the target RNA or a portion thereof.

In one embodiment, the invention features a double-stranded short interfering nucleic acid (siNA) molecule that inhibits expression of a target gene or that directs cleavage of a target RNA, wherein one of the strands of the double-stranded siNA molecule is an antisense strand which comprises nucleotide sequence that is complementary to nucleotide sequence of target RNA or a portion thereof, the other strand is a sense strand which comprises nucleotide sequence that is complementary to a nucleotide sequence of the antisense strand and wherein a majority of the pyrimidine nucleotides present in the double-stranded siNA molecule comprises a sugar modification, and wherein the 5'-end of the antisense strand optionally includes a phosphate group.

In one embodiment, the invention features a double-stranded short interfering nucleic acid (siNA) molecule that inhibits expression of a target gene or that directs cleavage of a target RNA, wherein one of the strands of the double-stranded siNA molecule is an antisense strand which comprises nucleotide sequence that is complementary to nucleotide sequence of target RNA or a portion thereof, the other strand is a sense strand which comprises nucleotide sequence that is complementary to a nucleotide sequence of the antisense strand and wherein a majority of the pyrimidine

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nucleotides present in the double-stranded siNA molecule comprises a sugar modification, and wherein the nucleotide sequence or a portion thereof of the antisense strand is complementary to a nucleotide sequence of the untranslated region or a portion thereof of the target RNA.

In one embodiment, the invention features a double-stranded short interfering nucleic acid (siNA) molecule that inhibits expression of a target gene or that directs cleavage of a target RNA, wherein one of the strands of the double-stranded siNA molecule is an antisense strand which comprises nucleotide sequence that is complementary to nucleotide sequence of target RNA or a portion thereof, wherein the other strand is a sense strand which comprises nucleotide sequence that is complementary to a nucleotide sequence of the antisense strand, wherein a majority of the pyrimidine nucleotides present in the double-stranded siNA molecule comprises a sugar modification, and wherein the nucleotide sequence of the antisense strand is complementary to a nucleotide sequence of the target RNA or a portion thereof that is present in the target RNA.

In one embodiment, the invention features a composition comprising a siNA molecule of the invention in a pharmaceutically acceptable carrier or diluent.

In a non-limiting example, the introduction of chemically-modified nucleotides into nucleic acid molecules provides a powerful tool in overcoming potential limitations of *in vivo* stability and bioavailability inherent to native RNA molecules that are delivered exogenously. For example, the use of chemically-modified nucleic acid molecules can enable a lower dose of a particular nucleic acid molecule for a given therapeutic effect since chemically-modified nucleic acid molecules tend to have a longer half-life in serum. Furthermore, certain chemical modifications can improve the bioavailability of nucleic acid molecules by targeting particular cells or tissues and/or improving cellular up take of the nucleic acid molecule. Therefore, even if the activity of a chemically-modified nucleic acid molecule is reduced as compared to a native nucleic acid molecule, for example, when compared to an all-RNA nucleic acid molecule, the overall activity of the modified nucleic acid molecule can be greater than that of the native molecule due to improved stability and/or delivery of the molecule. Unlike native

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unmodified siNA, chemically-modified siNA can also minimize the possibility of activating interferon activity in humans.

In any of the embodiments of siNA molecules described herein, the antisense region of a siNA molecule of the invention can comprise a phosphorothioate internucleotide linkage at the 3'-end of said antisense region. In any of the embodiments of siNA molecules described herein, the antisense region can comprise about one to about five phosphorothioate internucleotide linkages at the 5'-end of said antisense region. In any of the embodiments of siNA molecules described herein, the 3'-terminal nucleotide overhangs of a siNA molecule of the invention can comprise ribonucleotides or deoxyribonucleotides that are chemically-modified at a nucleic acid sugar, base, or backbone. In any of the embodiments of siNA molecules described herein, the 3'-terminal nucleotide overhangs can comprise one or more universal base ribonucleotides. In any of the embodiments of siNA molecules described herein, the 3'-terminal nucleotide overhangs can comprise one or more acyclic nucleotides.

One embodiment of the invention provides an expression vector comprising a nucleic acid sequence encoding at least one siNA molecule of the invention in a manner that allows expression of the nucleic acid molecule. Another embodiment of the invention provides a mammalian cell comprising such an expression vector. The mammalian cell can be a human cell. The siNA molecule of the expression vector can comprise a sense region and an antisense region. The antisense region can comprise sequence complementary to a RNA or DNA sequence encoding the target and the sense region can comprise sequence complementary to the antisense region. The siNA molecule can comprise two distinct strands having complementary sense and antisense regions. The siNA molecule can comprise a single strand having complementary sense and antisense regions.

In one embodiment, the invention features a chemically-modified short interfering nucleic acid (siNA) molecule capable of mediating RNA interference (RNAi) against a target polynucleotide (e.g., DNA or RNA) inside a cell or reconstituted *in vitro* system, wherein the chemical modification comprises one or more (e.g., about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, or more) nucleotides comprising a backbone modified internucleotide linkage having Formula I:

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$$R_1$$
— X — P — Y — R_2

wherein each R1 and R2 is independently any nucleotide, non-nucleotide, or polynucleotide which can be naturally-occurring or chemically-modified, each X and Y is independently O, S, N, alkyl, or substituted alkyl, each Z and W is independently O, S, N, alkyl, substituted alkyl, O-alkyl, S-alkyl, alkaryl, aralkyl, or acetyl and wherein W, X, Y, and Z are optionally not all O. In another embodiment, a backbone modification of the invention comprises a phosphonoacetate and/or thiophosphonoacetate internucleotide linkage (see for example Sheehan et al., 2003, Nucleic Acids Research, 31, 4109-4118).

The chemically-modified internucleotide linkages having Formula I, for example, wherein any Z, W, X, and/or Y in dependently comprises a sulphur atom, can be present in one or both oligonucleotide strands of the siNA duplex, for example, in the sense strand, the antisense strand, or both strands. The siNA molecules of the invention can comprise one or more (e.g., about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, or more) chemicallymodified internucleotide linkages having Formula I at the 3'-end, the 5'-end, or both of the 3' and 5'-ends of the sense strand, the antisense strand, or both strands. For example, an exemplary siNA molecule of the invention can comprise about 1 to about 5 or more (e.g., about 1, 2, 3, 4, 5, or more) chemically-modified internucleotide linkages having Formula I at the 5'-end of the sense strand, the antisense strand, or both strands. In another non-limiting example, an exemplary siNA molecule of the invention can comprise one or more (e.g., about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, or more) pyrimidine nucleotides with chemically-modified internucleotide linkages having Formula I in the sense strand, the antisense strand, or both strands. In yet another non-limiting example, an exemplary siNA molecule of the invention can comprise one or more (e.g., about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, or more) purine nucleotides with chemically-modified internucleotide linkages having Formula I in the sense strand, the antisense strand, or both strands. In another embodiment, a siNA molecule of the invention having internucleotide linkage(s) of Formula I also comprises a chemically-modified nucleotide or non-nucleotide having any of Formulae I-VII.

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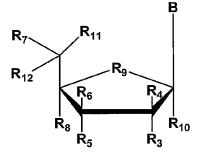
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In one embodiment, the invention features a chemically-modified short interfering nucleic acid (siNA) molecule capable of mediating RNA interference (RNAi) against a target polynucleotide (e.g., DNA or RNA) inside a cell or reconstituted *in vitro* system, wherein the chemical modification comprises one or more (e.g., about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, or more) nucleotides or non-nucleotides having Formula II:



wherein each R3, R4, R5, R6, R7, R8, R10, R11 and R12 is independently H, OH, alkyl, substituted alkyl, alkaryl or aralkyl, F, Cl, Br, CN, CF3, OCF3, OCN, O-alkyl, S-alkyl, N-alkyl, O-alkenyl, S-alkenyl, N-alkenyl, SO-alkyl, alkyl-OSH, alkyl-OH, O-alkyl-OH, O-alkyl-SH, S-alkyl-OH, S-alkyl-SH, alkyl-S-alkyl, alkyl-O-alkyl, ONO2, NO2, N3, NH2, aminoalkyl, aminoacid, aminoacyl, ONH2, O-aminoalkyl, O-aminoacid, O-aminoacyl, heterocycloalkyl, heterocycloalkaryl, aminoalkylamino, polyalklylamino, substituted silyl, or group having Formula I or II; R9 is O, S, CH2, S=O, CHF, or CF2, and B is a nucleosidic base such as adenine, guanine, uracil, cytosine, thymine, 2-aminoadenosine, 5-methylcytosine, 2,6-diaminopurine, or any other non-naturally occurring base that can be complementary or non-complementary to target RNA or a non-nucleosidic base such as phenyl, naphthyl, 3-nitropyrrole, 5-nitroindole, nebularine, pyridone, pyridinone, or any other non-naturally occurring universal base that can be complementary or non-complementary to target RNA.

The chemically-modified nucleotide or non-nucleotide of Formula II can be present in one or both oligonucleotide strands of the siNA duplex, for example in the sense strand, the antisense strand, or both strands. The siNA molecules of the invention can comprise one or more chemically-modified nucleotides or non-nucleotides of Formula II at the 3'-end, the 5'-end, or both of the 3' and 5'-ends of the sense strand, the antisense strand, or both strands. For example, an exemplary siNA molecule of the

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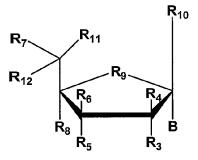
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invention can comprise about 1 to about 5 or more (e.g., about 1, 2, 3, 4, 5, or more) chemically-modified nucleotides or non-nucleotides of Formula II at the 5'-end of the sense strand, the antisense strand, or both strands. In anther non-limiting example, an exemplary siNA molecule of the invention can comprise about 1 to about 5 or more (e.g., about 1, 2, 3, 4, 5, or more) chemically-modified nucleotides or non-nucleotides of Formula II at the 3'-end of the sense strand, the antisense strand, or both strands.

In one embodiment, the invention features a chemically-modified short interfering nucleic acid (siNA) molecule capable of mediating RNA interference (RNAi) against a target polynucleotide (e.g., DNA or RNA) inside a cell or reconstituted *in vitro* system, wherein the chemical modification comprises one or more (e.g., about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, or more) nucleotides or non-nucleotides having Formula III:



wherein each R3, R4, R5, R6, R7, R8, R10, R11 and R12 is independently H, OH, alkyl, substituted alkyl, alkaryl or aralkyl, F, Cl, Br, CN, CF3, OCF3, OCN, O-alkyl, S-alkyl, N-alkyl, O-alkenyl, S-alkenyl, N-alkenyl, SO-alkyl, alkyl-OSH, alkyl-OH, O-alkyl-OH, O-alkyl-SH, S-alkyl-OH, S-alkyl-SH, alkyl-S-alkyl, alkyl-O-alkyl, ONO2, NO2, N3, NH2, aminoalkyl, aminoacid, aminoacyl, ONH2, O-aminoalkyl, O-aminoacid, O-aminoacyl, heterocycloalkyl, heterocycloalkaryl, aminoalkylamino, polyalklylamino, substituted silyl, or group having Formula I or II; R9 is O, S, CH2, S=O, CHF, or CF2, and B is a nucleosidic base such as adenine, guanine, uracil, cytosine, thymine, 2-aminoadenosine, 5-methylcytosine, 2,6-diaminopurine, or any other non-naturally occurring base that can be employed to be complementary or non-complementary to target RNA or a non-nucleosidic base such as phenyl, naphthyl, 3-nitropyrrole, 5-nitroindole, nebularine, pyridone, pyridinone, or any other non-naturally occurring universal base that can be complementary or non-complementary to target RNA.

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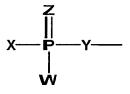
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The chemically-modified nucleotide or non-nucleotide of Formula III can be present in one or both oligonucleotide strands of the siNA duplex, for example, in the sense strand, the antisense strand, or both strands. The siNA molecules of the invention can comprise one or more chemically-modified nucleotides or non-nucleotides of Formula III at the 3'-end, the 5'-end, or both of the 3' and 5'-ends of the sense strand, the antisense strand, or both strands. For example, an exemplary siNA molecule of the invention can comprise about 1 to about 5 or more (e.g., about 1, 2, 3, 4, 5, or more) chemically-modified nucleotide(s) or non-nucleotide(s) of Formula III at the 5'-end of the sense strand, the antisense strand, or both strands. In anther non-limiting example, an exemplary siNA molecule of the invention can comprise about 1 to about 5 or more (e.g., about 1, 2, 3, 4, 5, or more) chemically-modified nucleotide or non-nucleotide of Formula III at the 3'-end of the sense strand, the antisense strand, or both strands.

In another embodiment, a siNA molecule of the invention comprises a nucleotide having Formula II or III, wherein the nucleotide having Formula II or III is in an inverted configuration. For example, the nucleotide having Formula II or III is connected to the siNA construct in a 3'-3', 3'-2', 2'-3', or 5'-5' configuration, such as at the 3'-end, the 5'-end, or both of the 3' and 5'-ends of one or both siNA strands.

In one embodiment, the invention features a chemically-modified short interfering nucleic acid (siNA) molecule capable of mediating RNA interference (RNAi) against a target polynucleotide (e.g., DNA or RNA) inside a cell or reconstituted *in vitro* system, wherein the chemical modification comprises a 5'-terminal phosphate group having Formula IV:



wherein each X and Y is independently O, S, N, alkyl, substituted alkyl, or alkylhalo; wherein each Z and W is independently O, S, N, alkyl, substituted alkyl, O-alkyl, S-alkyl, alkaryl, aralkyl, alkylhalo, or acetyl; and wherein W, X, Y and Z are not all O.

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In one embodiment, the invention features a siNA molecule having a 5'-terminal phosphate group having Formula IV on the target-complementary strand, for example, a strand complementary to a target RNA, wherein the siNA molecule comprises an all RNA siNA molecule. In another embodiment, the invention features a siNA molecule having a 5'-terminal phosphate group having Formula IV on the target-complementary strand wherein the siNA molecule also comprises about 1 to about 3 (e.g., about 1, 2, or 3) nucleotide 3'-terminal nucleotide overhangs having about 1 to about 4 (e.g., about 1, 2, 3, or 4) deoxyribonucleotides on the 3'-end of one or both strands. In another embodiment, a 5'-terminal phosphate group having Formula IV is present on the target-complementary strand of a siNA molecule of the invention, for example a siNA molecule having chemical modifications having any of Formulae I-VII.

In one embodiment, the invention features a chemically-modified short interfering nucleic acid (siNA) molecule capable of mediating RNA interference (RNAi) against a target polynucleotide (e.g., DNA or RNA) inside a cell or reconstituted in vitro system, wherein the chemical modification comprises one or more phosphorothioate internucleotide linkages. For example, in a non-limiting example, the invention features a chemically-modified short interfering nucleic acid (siNA) having about 1, 2, 3, 4, 5, 6, 7, 8 or more phosphorothioate internucleotide linkages in one siNA strand. In yet another embodiment, the invention features a chemically-modified short interfering nucleic acid (siNA) individually having about 1, 2, 3, 4, 5, 6, 7, 8 or more phosphorothioate internucleotide linkages in both siNA strands. The phosphorothioate internucleotide linkages can be present in one or both oligonucleotide strands of the siNA duplex, for example in the sense strand, the antisense strand, or both strands. The siNA molecules of the invention can comprise one or more phosphorothioate internucleotide linkages at the 3'-end, the 5'-end, or both of the 3'- and 5'-ends of the sense strand, the antisense strand, or both strands. For example, an exemplary siNA molecule of the invention can comprise about 1 to about 5 or more (e.g., about 1, 2, 3, 4, 5, or more) consecutive phosphorothioate internucleotide linkages at the 5'-end of the sense strand, the antisense strand, or both strands. In another non-limiting example, an exemplary siNA molecule of the invention can comprise one or more (e.g., about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, or more) pyrimidine phosphorothioate internucleotide linkages in the sense strand, the antisense strand, or both strands. In yet another non-limiting example,

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an exemplary siNA molecule of the invention can comprise one or more (e.g., about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, or more) purine phosphoroth-ioate internucleotide linkages in the sense strand, the antisense strand, or both strands.

In one embodiment, a siNA molecule of the invention is featured, wherein the sense strand comprises one or more, for example, about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, or more phosphorothioate internucleotide linkages, and/or one or more (e.g., about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 or more) 2'-deoxy, 2'-O-methyl, 2'-deoxy-2'-fluoro, and/or about one or more (e.g., about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 or more) universal base modified nucleotides, and optionally a terminal cap molecule at the 3'-end, the 5'-end, or both of the 3'- and 5'-ends of the sense strand; and wherein the antisense strand comprises about 1 to about 10 or more, specifically about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, or more phosphorothioate internucleotide linkages, and/or one or more (e.g., about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 or more) 2'-deoxy, 2'-O-methyl, 2'-deoxy-2'-fluoro, and/or one or more (e.g., about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 or more) universal base modified nucleotides, and optionally a terminal cap molecule at the 3'-end, the 5'-end, or both of the 3'- and 5'-ends of the antisense strand. In another embodiment, one or more, for example about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, or more, pyrimidine nucleotides of the sense and/or antisense siNA strand are chemically-modified with 2'-deoxy, 2'-O-methyl and/or 2'-deoxy-2'-fluoro nucleotides, with or without one or more, for example about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, or more, phosphorothioate internucleotide linkages and/or a terminal cap molecule at the 3'end, the 5'-end, or both of the 3'- and 5'-ends, being present in the same or different strand.

In another embodiment, a siNA molecule of the invention is featured, wherein the sense strand comprises about 1 to about 5, specifically about 1, 2, 3, 4, or 5 phosphorothioate internucleotide linkages, and/or one or more (e.g., about 1, 2, 3, 4, 5, or more) 2'-deoxy, 2'-O-methyl, 2'-deoxy-2'-fluoro, and/or one or more (e.g., about 1, 2, 3, 4, 5, or more) universal base modified nucleotides, and optionally a terminal cap molecule at the 3-end, the 5'-end, or both of the 3'- and 5'-ends of the sense strand; and wherein the antisense strand comprises about 1 to about 5 or more, specifically about 1, 2, 3, 4, 5, or more phosphorothioate internucleotide linkages, and/or one or more (e.g., about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 or more) 2'-deoxy, 2'-O-methyl, 2'-deoxy-2'-fluoro,

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and/or one or more (e.g., about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 or more) universal base modified nucleotides, and optionally a terminal cap molecule at the 3'-end, the 5'-end, or both of the 3'- and 5'-ends of the antisense strand. In another embodiment, one or more, for example about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, or more, pyrimidine nucleotides of the sense and/or antisense siNA strand are chemically-modified with 2'-deoxy, 2'-O-methyl and/or 2'-deoxy-2'-fluoro nucleotides, with or without about 1 to about 5 or more, for example about 1, 2, 3, 4, 5, or more phosphorothioate internucleotide linkages and/or a terminal cap molecule at the 3'-end, the 5'-end, or both of the 3'- and 5'-ends, being present in the same or different strand.

In one embodiment, a siNA molecule of the invention is featured, wherein the antisense strand comprises one or more, for example, about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, or more phosphorothioate internucleotide linkages, and/or about one or more (e.g., about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 or more) 2'-deoxy, 2'-O-methyl, 2'-deoxy-2'-fluoro, and/or one or more (e.g., about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 or more) universal base modified nucleotides, and optionally a terminal cap molecule at the 3'-end, the 5'-end, or both of the 3'- and 5'ends of the sense strand; and wherein the antisense strand comprises about 1 to about 10 or more, specifically about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 or more phosphorothioate internucleotide linkages, and/or one or more (e.g., about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 or more) 2'-deoxy, 2'-O-methyl, 2'-deoxy-2'-fluoro, and/or one or more (e.g., about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 or more) universal base modified nucleotides, and optionally a terminal cap molecule at the 3'-end, the 5'-end, or both of the 3'- and 5'-ends of the antisense strand. In another embodiment, one or more, for example about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 or more pyrimidine nucleotides of the sense and/or antisense siNA strand are chemically-modified with 2'-deoxy, 2'-O-methyl and/or 2'-deoxy-2'-fluoro nucleotides, with or without one or more, for example, about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 or more phosphorothioate internucleotide linkages and/or a terminal cap molecule at the 3'-end. the 5'-end, or both of the 3' and 5'-ends, being present in the same or different strand.

In another embodiment, a siNA molecule of the invention is featured, wherein the antisense strand comprises about 1 to about 5 or more, specifically about 1, 2, 3, 4, 5 or more phosphorothioate internucleotide linkages, and/or one or more (*e.g.*, about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 or more) 2'-deoxy, 2'-O-methyl, 2'-deoxy-2'-fluoro, and/or one or more

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(e.g., about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 or more) universal base modified nucleotides, and optionally a terminal cap molecule at the 3'-end, the 5'-end, or both of the 3'- and 5'-ends of the sense strand; and wherein the antisense strand comprises about 1 to about 5 or more, specifically about 1, 2, 3, 4, 5 or more phosphorothioate internucleotide linkages, and/or one or more (e.g., about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 or more) 2'-deoxy, 2'-O-methyl, 2'-deoxy-2'-fluoro, and/or one or more (e.g., about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 or more) universal base modified nucleotides, and optionally a terminal cap molecule at the 3'-end, the 5'-end, or both of the 3'- and 5'-ends of the antisense strand. In another embodiment, one or more, for example about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 or more pyrimidine nucleotides of the sense and/or antisense siNA strand are chemically-modified with 2'-deoxy, 2'-O-methyl and/or 2'-deoxy-2'-fluoro nucleotides, with or without about 1 to about 5, for example about 1, 2, 3, 4, 5 or more phosphorothioate internucleotide linkages and/or a terminal cap molecule at the 3'-end, the 5'-end, or both of the 3'- and 5'-ends, being present in the same or different strand.

In one embodiment, a chemically-modified short interfering nucleic acid (siNA) molecule of the invention comprises about 1 to about 5 or more (specifically about 1, 2, 3, 4, 5 or more) phosphorothicate internucleotide linkages in each strand of the siNA molecule.

In another embodiment, a siNA molecule of the invention comprises 2'-5' internucleotide linkages. The 2'-5' internucleotide linkage(s) can be at the 3'-end, the 5'-end, or both of the 3'- and 5'-ends of one or both siNA sequence strands. In addition, the 2'-5' internucleotide linkage(s) can be present at various other positions within one or both siNA sequence strands, for example, about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, or more including every internucleotide linkage of a pyrimidine nucleotide in one or both strands of the siNA molecule can comprise a 2'-5' internucleotide linkage, or about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, or more including every internucleotide linkage of a purine nucleotide in one or both strands of the siNA molecule can comprise a 2'-5' internucleotide linkage.

In another embodiment, a chemically-modified siNA molecule of the invention comprises a duplex having two strands, one or both of which can be chemically-modified, wherein each strand is independently about 15 to about 30 (e.g., about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30) nucleotides in length, wherein the

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duplex has about 15 to about 30 (e.g., about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30) base pairs, and wherein the chemical modification comprises a structure having any of Formulae I-VII. For example, an exemplary chemicallymodified siNA molecule of the invention comprises a duplex having two strands, one or both of which can be chemically-modified with a chemical modification having any of Formulae I-VII or any combination thereof, wherein each strand consists of about 21 nucleotides, each having a 2-nucleotide 3'-terminal nucleotide overhang, and wherein the duplex has about 19 base pairs. In another embodiment, a siNA molecule of the invention comprises a single stranded hairpin structure, wherein the siNA is about 36 to about 70 (e.g., about 36, 40, 45, 50, 55, 60, 65, or 70) nucleotides in length having about 15 to about 30 (e.g., about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30) base pairs, and wherein the siNA can include a chemical modification comprising a structure having any of Formulae I-VII or any combination thereof. For example, an exemplary chemically-modified siNA molecule of the invention comprises a linear oligonucleotide having about 42 to about 50 (e.g., about 42, 43, 44, 45, 46, 47, 48, 49, or 50) nucleotides that is chemically-modified with a chemical modification having any of Formulae I-VII or any combination thereof, wherein the linear oligonucleotide forms a hairpin structure having about 19 to about 21 (e.g., 19, 20, or 21) base pairs and a 2nucleotide 3'-terminal nucleotide overhang. In another embodiment, a linear hairpin siNA molecule of the invention contains a stem loop motif, wherein the loop portion of the siNA molecule is biodegradable. For example, a linear hairpin siNA molecule of the invention is designed such that degradation of the loop portion of the siNA molecule in vivo can generate a double-stranded siNA molecule with 3'-terminal overhangs, such as 3'-terminal nucleotide overhangs comprising about 2 nucleotides.

In another embodiment, a siNA molecule of the invention comprises a hairpin structure, wherein the siNA is about 25 to about 50 (e.g., about 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, or 50) nucleotides in length having about 3 to about 25 (e.g., about 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, or 25) base pairs, and wherein the siNA can include one or more chemical modifications comprising a structure having any of Formulae I-VII or any combination thereof. For example, an exemplary chemically-modified siNA molecule of the invention comprises a linear oligonucleotide having about 25 to about 35 (e.g., about

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25, 26, 27, 28, 29, 30, 31, 32, 33, 34, or 35) nucleotides that is chemically-modified with one or more chemical modifications having any of Formulae I-VII or any combination thereof, wherein the linear oligonucleotide forms a hairpin structure having about 3 to about 25 (e.g., about 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, or 25) base pairs and a 5'-terminal phosphate group that can be chemically modified as described herein (for example a 5'-terminal phosphate group having Formula IV). In another embodiment, a linear hairpin siNA molecule of the invention contains a stem loop motif, wherein the loop portion of the siNA molecule is biodegradable. In one embodiment, a linear hairpin siNA molecule of the invention comprises a loop portion comprising a non-nucleotide linker.

In another embodiment, a siNA molecule of the invention comprises an asymmetric hairpin structure, wherein the siNA is about 25 to about 50 (e.g., about 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, or 50) nucleotides in length having about 3 to about 25 (e.g., about 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, or 25) base pairs, and wherein the siNA can include one or more chemical modifications comprising a structure having any of Formulae I-VII or any combination thereof. For example, an exemplary chemicallymodified siNA molecule of the invention comprises a linear oligonucleotide having about 25 to about 35 (e.g., about 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, or 35) nucleotides that is chemically-modified with one or more chemical modifications having any of Formulae I-VII or any combination thereof, wherein the linear oligonucleotide forms an asymmetric hairpin structure having about 3 to about 25 (e.g., about 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, or 25) base pairs and a 5'-terminal phosphate group that can be chemically modified as described herein (for example a 5'terminal phosphate group having Formula IV). In one embodiment, an asymmetric hairpin siNA molecule of the invention contains a stem loop motif, wherein the loop portion of the siNA molecule is biodegradable. In another embodiment, an asymmetric hairpin siNA molecule of the invention comprises a loop portion comprising a nonnucleotide linker.

In another embodiment, a siNA molecule of the invention comprises an asymmetric double stranded structure having separate polynucleotide strands comprising

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sense and antisense regions, wherein the antisense region is about 15 to about 30 (e.g., about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30) nucleotides in length, wherein the sense region is about 3 to about 25 (e.g., about 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, or 25) nucleotides in length, wherein the sense region and the antisense region have at least 3 complementary nucleotides, and wherein the siNA can include one or more chemical modifications comprising a structure having any of Formulae I-VII or any combination thereof. For example, an exemplary chemically-modified siNA molecule of the invention comprises an asymmetric double stranded structure having separate polynucleotide strands comprising sense and antisense regions, wherein the antisense region is about 18 to about 23 (e.g., about 18, 19, 20, 21, 22, or 23) nucleotides in length and wherein the sense region is about 3 to about 15 (e.g., about 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, or 15) nucleotides in length, wherein the sense region the antisense region have at least 3 complementary nucleotides, and wherein the siNA can include one or more chemical modifications comprising a structure having any of Formulae I-VII or any combination thereof. In another embodiment, the asymmetric double stranded siNA molecule can also have a 5'-terminal phosphate group that can be chemically modified as described herein (for example a 5'-terminal phosphate group having Formula IV).

In another embodiment, a siNA molecule of the invention comprises a circular nucleic acid molecule, wherein the siNA is about 38 to about 70 (e.g., about 38, 40, 45, 50, 55, 60, 65, or 70) nucleotides in length having about 15 to about 30 (e.g., about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30) base pairs, and wherein the siNA can include a chemical modification, which comprises a structure having any of Formulae I-VII or any combination thereof. For example, an exemplary chemically-modified siNA molecule of the invention comprises a circular oligonucleotide having about 42 to about 50 (e.g., about 42, 43, 44, 45, 46, 47, 48, 49, or 50) nucleotides that is chemically-modified with a chemical modification having any of Formulae I-VII or any combination thereof, wherein the circular oligonucleotide forms a dumbbell shaped structure having about 19 base pairs and 2 loops.

In another embodiment, a circular siNA molecule of the invention contains two loop motifs, wherein one or both loop portions of the siNA molecule is biodegradable.

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For example, a circular siNA molecule of the invention is designed such that degradation of the loop portions of the siNA molecule *in vivo* can generate a double-stranded siNA molecule with 3'-terminal overhangs, such as 3'-terminal nucleotide overhangs comprising about 2 nucleotides.

In one embodiment, a siNA molecule of the invention comprises at least one (e.g., about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, or more) abasic moiety, for example a compound having Formula V:

wherein each R3, R4, R5, R6, R7, R8, R10, R11, R12, and R13 is independently H, OH, alkyl, substituted alkyl, alkaryl or aralkyl, F, Cl, Br, CN, CF3, OCF3, OCN, O-alkyl, S-alkyl, N-alkyl, O-alkyl, S-alkenyl, N-alkenyl, SO-alkyl, alkyl-OSH, alkyl-OH, O-alkyl-OH, O-alkyl-SH, S-alkyl-OH, S-alkyl-SH, alkyl-S-alkyl, alkyl-O-alkyl, ONO2, NO2, N3, NH2, aminoalkyl, aminoacid, aminoacyl, ONH2, O-aminoalkyl, O-aminoacid, O-aminoacyl, heterocycloalkyl, heterocycloalkaryl, aminoalkylamino, polyalklylamino, substituted silyl, or group having Formula I or II; R9 is O, S, CH2, S=O, CHF, or CF2.

In one embodiment, a siNA molecule of the invention comprises at least one (e.g., about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, or more) inverted abasic moiety, for example a compound having Formula VI:

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wherein each R3, R4, R5, R6, R7, R8, R10, R11, R12, and R13 is independently H, OH, alkyl, substituted alkyl, alkaryl or aralkyl, F, Cl, Br, CN, CF3, OCF3, OCN, O-alkyl, S-alkyl, N-alkyl, O-alkyl, S-alkyl-OH, O-alkyl-OH, O-alkyl-SH, S-alkyl-OH, S-alkyl-SH, alkyl-S-alkyl, alkyl-O-alkyl, ONO2, NO2, N3, NH2, aminoalkyl, aminoacid, aminoacyl, ONH2, O-aminoalkyl, O-aminoacid, O-aminoacyl, heterocycloalkyl, heterocycloalkaryl, aminoalkylamino, polyalklylamino, substituted silyl, or group having Formula I or II; R9 is O, S, CH2, S=O, CHF, or CF2, and either R2, R3, R8 or R13 serve as points of attachment to the siNA molecule of the invention.

In another embodiment, a siNA molecule of the invention comprises at least one (e.g., about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, or more) substituted polyalkyl moieties, for example a compound having Formula VII:

$$R_1$$
 R_2
 R_3

wherein each n is independently an integer from 1 to 12, each R1, R2 and R3 is independently H, OH, alkyl, substituted alkyl, alkaryl or aralkyl, F, Cl, Br, CN, CF3, OCF3, OCN, O-alkyl, S-alkyl, N-alkyl, O-alkenyl, S-alkenyl, N-alkenyl, SO-alkyl, alkyl-OSH, alkyl-OH, O-alkyl-OH, O-alkyl-SH, S-alkyl-OH, S-alkyl-SH, alkyl-S-alkyl, alkyl-O-alkyl, ONO2, NO2, N3, NH2, aminoalkyl, aminoacid, aminoacyl, ONH2, O-aminoalkyl, O-aminoacid, O-aminoacyl, heterocycloalkyl, heterocycloalkaryl, aminoalkylamino, polyalklylamino, substituted silyl, or a group having Formula I, and R1, R2 or R3 serves as points of attachment to the siNA molecule of the invention.

In another embodiment, a siNA molecule of the invention comprises a compound having Formula VII, wherein R1 and R2 are hydroxyl (OH) groups, n = 1, and R3 comprises O and is the point of attachment to the 3'-end, the 5'-end, or both of the 3' and 5'-ends of one or both strands of a double-stranded siNA molecule of the invention or to a single-stranded siNA molecule of the invention. This modification is referred to herein as "glyceryl" (for example modification 6 in Figure 10).

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In another embodiment, a chemically modified nucleoside or non-nucleoside (e.g. a moiety having any of Formula V, VI or VII) of the invention is at the 3'-end, the 5'-end, or both of the 3' and 5'-ends of a siNA molecule of the invention. For example, chemically modified nucleoside or non-nucleoside (e.g., a moiety having Formula V, VI or VII) can be present at the 3'-end, the 5'-end, or both of the 3' and 5'-ends of the antisense strand, the sense strand, or both antisense and sense strands of the siNA molecule. In one embodiment, the chemically modified nucleoside or non-nucleoside (e.g., a moiety having Formula V, VI or VII) is present at the 5'-end and 3'-end of the sense strand and the 3'-end of the antisense strand of a double stranded siNA molecule of the invention. In one embodiment, the chemically modified nucleoside or nonnucleoside (e.g., a moiety having Formula V, VI or VII) is present at the terminal position of the 5'-end and 3'-end of the sense strand and the 3'-end of the anti-sense strand of a double stranded siNA molecule of the invention. In one embodiment, the chemically modified nucleoside or non-nucleoside (e.g., a moiety having Formula V, VI or VII) is present at the two terminal positions of the 5'-end and 3'-end of the sense strand and the 3'-end of the antisense strand of a double stranded siNA molecule of the invention. In one embodiment, the chemically modified nucleoside or non-nucleoside (e.g., a moiety having Formula V, VI or VII) is present at the penultimate position of the 5'-end and 3'-end of the sense strand and the 3'-end of the antisense strand of a double stranded siNA molecule of the invention. In addition, a moiety having Formula VII can be present at the 3'-end or the 5'-end of a hairpin siNA molecule as described herein.

In another embodiment, a siNA molecule of the invention comprises an abasic residue having Formula V or VI, wherein the abasic residue having Formula VI or VI is connected to the siNA construct in a 3'-3', 3'-2', 2'-3', or 5'-5' configuration, such as at the 3'-end, or both of the 3' and 5'-ends of one or both siNA strands.

In one embodiment, a siNA molecule of the invention comprises one or more (e.g., about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, or more) locked nucleic acid (LNA) nucleotides, for example, at the 5'-end, the 3'-end, both of the 5' and 3'-ends, or any combination thereof, of the siNA molecule.

In another embodiment, a siNA molecule of the invention comprises one or more (e.g., about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, or more) acyclic nucleotides, for example, at the

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5'-end, the 3'-end, both of the 5' and 3'-ends, or any combination thereof, of the siNA molecule.

In one embodiment, the invention features a chemically-modified short interfering nucleic acid (siNA) molecule of the invention comprising a sense region, wherein any (e.g., one or more or all) pyrimidine nucleotides present in the sense region are 2'-deoxy-2'-fluoro pyrimidine nucleotides (e.g., wherein all pyrimidine nucleotides are 2'-deoxy-2'-fluoro pyrimidine nucleotides or alternately a plurality of pyrimidine nucleotides are 2'-deoxy-2'-fluoro pyrimidine nucleotides), and wherein any (e.g., one or more or all) purine nucleotides present in the sense region are 2'-deoxy purine nucleotides (e.g., wherein all purine nucleotides are 2'-deoxy purine nucleotides or alternately a plurality of purine nucleotides are 2'-deoxy purine nucleotides.

In one embodiment, the invention features a chemically-modified short interfering nucleic acid (siNA) molecule of the invention comprising a sense region, wherein any (e.g., one or more or all) pyrimidine nucleotides present in the sense region are 2'-deoxy-2'-fluoro pyrimidine nucleotides (e.g., wherein all pyrimidine nucleotides are 2'-deoxy-2'-fluoro pyrimidine nucleotides or alternately a plurality of pyrimidine nucleotides are 2'-deoxy-2'-fluoro pyrimidine nucleotides), and wherein any (e.g., one or more or all) purine nucleotides present in the sense region are 2'-deoxy purine nucleotides (e.g., wherein all purine nucleotides are 2'-deoxy purine nucleotides or alternately a plurality of purine nucleotides are 2'-deoxy purine nucleotides), wherein any nucleotides comprising a 3'-terminal nucleotide overhang that are present in said sense region are 2'-deoxy nucleotides.

In one embodiment, the invention features a chemically-modified short interfering nucleic acid (siNA) molecule of the invention comprising a sense region, wherein any (e.g., one or more or all) pyrimidine nucleotides present in the sense region are 2'-deoxy-2'-fluoro pyrimidine nucleotides (e.g., wherein all pyrimidine nucleotides are 2'-deoxy-2'-fluoro pyrimidine nucleotides or alternately a plurality of pyrimidine nucleotides are 2'-deoxy-2'-fluoro pyrimidine nucleotides), and wherein any (e.g., one or more or all) purine nucleotides present in the sense region are 2'-O-methyl purine nucleotides (e.g., wherein all purine nucleotides are 2'-O-methyl purine nucleotides or alternately a plurality of purine nucleotides are 2'-O-methyl purine nucleotides).

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In one embodiment, the invention features a chemically-modified short interfering nucleic acid (siNA) molecule of the invention comprising a sense region, wherein any (e.g., one or more or all) pyrimidine nucleotides present in the sense region are 2'-deoxy-2'-fluoro pyrimidine nucleotides (e.g., wherein all pyrimidine nucleotides are 2'-deoxy-2'-fluoro pyrimidine nucleotides or alternately a plurality of pyrimidine nucleotides are 2'-deoxy-2'-fluoro pyrimidine nucleotides), wherein any (e.g., one or more or all) purine nucleotides present in the sense region are 2'-O-methyl purine nucleotides (e.g., wherein all purine nucleotides are 2'-O-methyl purine nucleotides or alternately a plurality of purine nucleotides are 2'-O-methyl purine nucleotides), and wherein any nucleotides comprising a 3'-terminal nucleotide overhang that are present in said sense region are 2'-deoxy nucleotides.

In one embodiment, the invention features a chemically-modified short interfering nucleic acid (siNA) molecule of the invention comprising an antisense region, wherein any (e.g., one or more or all) pyrimidine nucleotides present in the antisense region are 2'-deoxy-2'-fluoro pyrimidine nucleotides (e.g., wherein all pyrimidine nucleotides are 2'-deoxy-2'-fluoro pyrimidine nucleotides or alternately a plurality of pyrimidine nucleotides are 2'-deoxy-2'-fluoro pyrimidine nucleotides), and wherein any (e.g., one or more or all) purine nucleotides present in the antisense region are 2'-O-methyl purine nucleotides (e.g., wherein all purine nucleotides are 2'-O-methyl purine nucleotides or alternately a plurality of purine nucleotides are 2'-O-methyl purine nucleotides).

In one embodiment, the invention features a chemically-modified short interfering nucleic acid (siNA) molecule of the invention comprising an antisense region, wherein any (e.g., one or more or all) pyrimidine nucleotides present in the antisense region are 2'-deoxy-2'-fluoro pyrimidine nucleotides (e.g., wherein all pyrimidine nucleotides are 2'-deoxy-2'-fluoro pyrimidine nucleotides or alternately a plurality of pyrimidine nucleotides are 2'-deoxy-2'-fluoro pyrimidine nucleotides), wherein any (e.g., one or more or all) purine nucleotides present in the antisense region are 2'-O-methyl purine nucleotides or alternately a plurality of purine nucleotides are 2'-O-methyl purine nucleotides or alternately a plurality of purine nucleotides are 2'-O-methyl purine nucleotides), and wherein any nucleotides comprising a 3'-terminal nucleotide overhang that are present in said antisense region are 2'-deoxy nucleotides.

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In one embodiment, the invention features a chemically-modified short interfering nucleic acid (siNA) molecule of the invention comprising an antisense region, wherein any (e.g., one or more or all) pyrimidine nucleotides present in the antisense region are 2'-deoxy-2'-fluoro pyrimidine nucleotides (e.g., wherein all pyrimidine nucleotides are 2'-deoxy-2'-fluoro pyrimidine nucleotides or alternately a plurality of pyrimidine nucleotides are 2'-deoxy-2'-fluoro pyrimidine nucleotides), and wherein any (e.g., one or more or all) purine nucleotides present in the antisense region are 2'-deoxy purine nucleotides (e.g., wherein all purine nucleotides are 2'-deoxy purine nucleotides or alternately a plurality of purine nucleotides are 2'-deoxy purine nucleotides).

In one embodiment, the invention features a chemically-modified short interfering nucleic acid (siNA) molecule of the invention comprising an antisense region, wherein any (e.g., one or more or all) pyrimidine nucleotides present in the antisense region are 2'-deoxy-2'-fluoro pyrimidine nucleotides (e.g., wherein all pyrimidine nucleotides are 2'-deoxy-2'-fluoro pyrimidine nucleotides or alternately a plurality of pyrimidine nucleotides are 2'-deoxy-2'-fluoro pyrimidine nucleotides), and wherein any (e.g., one or more or all) purine nucleotides present in the antisense region are 2'-O-methyl purine nucleotides or alternately a plurality of purine nucleotides are 2'-O-methyl purine nucleotides or alternately a plurality of purine nucleotides are 2'-O-methyl purine nucleotides).

In one embodiment, the invention features a chemically-modified short interfering nucleic acid (siNA) molecule of the invention capable of mediating RNA interference (RNAi) against a target polynucleotide (e.g., DNA or RNA) inside a cell or reconstituted in vitro system comprising a sense region, wherein one or more pyrimidine nucleotides present in the sense region are 2'-deoxy-2'-fluoro pyrimidine nucleotides (e.g., wherein all pyrimidine nucleotides are 2'-deoxy-2'-fluoro pyrimidine nucleotides or alternately a plurality of pyrimidine nucleotides are 2'-deoxy-2'-fluoro pyrimidine nucleotides), and one or more purine nucleotides present in the sense region are 2'-deoxy purine nucleotides or alternately a plurality of purine nucleotides are 2'-deoxy purine nucleotides or alternately a plurality of purine nucleotides are 2'-deoxy purine nucleotides), and an antisense region, wherein one or more pyrimidine nucleotides present in the antisense region are 2'-deoxy-2'-fluoro pyrimidine nucleotides (e.g., wherein all pyrimidine nucleotides are 2'-deoxy-2'-fluoro pyrimidine nucleotides or alternately a plurality of

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pyrimidine nucleotides are 2'-deoxy-2'-fluoro pyrimidine nucleotides), and one or more purine nucleotides present in the antisense region are 2'-O-methyl purine nucleotides (e.g., wherein all purine nucleotides are 2'-O-methyl purine nucleotides or alternately a plurality of purine nucleotides are 2'-O-methyl purine nucleotides). The sense region and/or the antisense region can have a terminal cap modification, such as any modification described herein or shown in Figure 10, that is optionally present at the 3'end, the 5'-end, or both of the 3' and 5'-ends of the sense and/or antisense sequence. The sense and/or antisense region can optionally further comprise a 3'-terminal nucleotide overhang having about 1 to about 4 (e.g., about 1, 2, 3, or 4) 2'-deoxynucleotides. The overhang nucleotides can further comprise one or more (e.g., about 1, 2, 3, 4 or more) phosphorothioate, phosphonoacetate, and/or thiophosphonoacetate internucleotide linkages. Non-limiting examples of these chemically-modified siNAs are shown in Figures 4 and 5 and Table II herein. In any of these described embodiments, the purine nucleotides present in the sense region are alternatively 2'-O-methyl purine nucleotides (e.g., wherein all purine nucleotides are 2'-O-methyl purine nucleotides or alternately a plurality of purine nucleotides are 2'-O-methyl purine nucleotides) and one or more purine nucleotides present in the antisense region are 2'-O-methyl purine nucleotides (e.g., wherein all purine nucleotides are 2'-O-methyl purine nucleotides or alternately a plurality of purine nucleotides are 2'-O-methyl purine nucleotides). Also, in any of these embodiments, one or more purine nucleotides present in the sense region are alternatively purine ribonucleotides (e.g., wherein all purine nucleotides are purine ribonucleotides or alternately a plurality of purine nucleotides are purine ribonucleotides) and any purine nucleotides present in the antisense region are 2'-O-methyl purine nucleotides (e.g., wherein all purine nucleotides are 2'-O-methyl purine nucleotides or alternately a plurality of purine nucleotides are 2'-O-methyl purine nucleotides). Additionally, in any of these embodiments, one or more purine nucleotides present in the sense region and/or present in the antisense region are alternatively selected from the group consisting of 2'-deoxy nucleotides, locked nucleic acid (LNA) nucleotides, 2'methoxyethyl nucleotides, 4'-thionucleotides, and 2'-O-methyl nucleotides (e.g., wherein all purine nucleotides are selected from the group consisting of 2'-deoxy nucleotides, locked nucleic acid (LNA) nucleotides, 2'-methoxyethyl nucleotides, 4'thionucleotides, and 2'-O-methyl nucleotides or alternately a plurality of purine

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nucleotides are selected from the group consisting of 2'-deoxy nucleotides, locked nucleic acid (LNA) nucleotides, 2'-methoxyethyl nucleotides, 4'-thionucleotides, and 2'-O-methyl nucleotides).

In another embodiment, any modified nucleotides present in the siNA molecules of the invention, preferably in the antisense strand of the siNA molecules of the invention, but also optionally in the sense and/or both antisense and sense strands, comprise modified nucleotides having properties or characteristics similar to naturally occurring ribonucleotides. For example, the invention features siNA molecules including modified nucleotides having a Northern conformation (e.g., Northern pseudorotation cycle, see for example Saenger, Principles of Nucleic Acid Structure, Springer-Verlag ed., 1984). As such, chemically modified nucleotides present in the siNA molecules of the invention, preferably in the antisense strand of the siNA molecules of the invention, but also optionally in the sense and/or both antisense and sense strands, are resistant to nuclease degradation while at the same time maintaining the capacity to mediate RNAi. Nonlimiting examples of nucleotides having a northern configuration include locked nucleic acid (LNA) nucleotides (e.g., 2'-O, 4'-C-methylene-(D-ribofuranosyl) nucleotides); 2'-(MOE) nucleotides; 2'-methyl-thio-ethyl, 2'-deoxy-2'-fluoro methoxyethoxy nucleotides, 2'-deoxy-2'-chloro nucleotides, 2'-azido nucleotides, and 2'-O-methyl nucleotides.

In one embodiment, the sense strand of a double stranded siNA molecule of the invention comprises a terminal cap moiety, (see for example **Figure 10**) such as an inverted deoxyabaisc moiety, at the 3'-end, 5'-end, or both 3' and 5'-ends of the sense strand.

In one embodiment, the invention features a chemically-modified short interfering nucleic acid molecule (siNA) capable of mediating RNA interference (RNAi) against a target polynucleotide (e.g., DNA or RNA) inside a cell or reconstituted *in vitro* system, wherein the chemical modification comprises a conjugate covalently attached to the chemically-modified siNA molecule. Non-limiting examples of conjugates contemplated by the invention include conjugates and ligands described in Vargeese *et al.*, USSN 10/427,160, filed April 30, 2003, incorporated by reference herein in its entirety, including the drawings. In another embodiment, the conjugate is covalently

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attached to the chemically-modified siNA molecule via a biodegradable linker. In one embodiment, the conjugate molecule is attached at the 3'-end of either the sense strand, the antisense strand, or both strands of the chemically-modified siNA molecule. In another embodiment, the conjugate molecule is attached at the 5'-end of either the sense strand, the antisense strand, or both strands of the chemically-modified siNA molecule. In yet another embodiment, the conjugate molecule is attached both the 3'-end and 5'-end of either the sense strand, the antisense strand, or both strands of the chemicallymodified siNA molecule, or any combination thereof. In one embodiment, a conjugate molecule of the invention comprises a molecule that facilitates delivery of a chemicallymodified siNA molecule into a biological system, such as a cell. In another embodiment, the conjugate molecule attached to the chemically-modified siNA molecule is a polyethylene glycol, human serum albumin, or a ligand for a cellular receptor that can mediate cellular uptake. Examples of specific conjugate molecules contemplated by the instant invention that can be attached to chemically-modified siNA molecules are described in Vargeese et al., U.S. Serial No. 10/201,394, filed July 22, 2002 incorporated by reference herein. The type of conjugates used and the extent of conjugation of siNA molecules of the invention can be evaluated for improved pharmacokinetic profiles, bioavailability, and/or stability of siNA constructs while at the same time maintaining the ability of the siNA to mediate RNAi activity. As such, one skilled in the art can screen siNA constructs that are modified with various conjugates to determine whether the siNA conjugate complex possesses improved properties while maintaining the ability to mediate RNAi, for example in animal models as are generally known in the art.

In one embodiment, the invention features a short interfering nucleic acid (siNA) molecule of the invention, wherein the siNA further comprises a nucleotide, non-nucleotide, or mixed nucleotide/non-nucleotide linker that joins the sense region of the siNA to the antisense region of the siNA. In one embodiment, a nucleotide linker of the invention can be a linker of ≥ 2 nucleotides in length, for example about 3, 4, 5, 6, 7, 8, 9, or 10 nucleotides in length. In another embodiment, the nucleotide linker can be a nucleic acid aptamer. By "aptamer" or "nucleic acid aptamer" as used herein is meant a nucleic acid molecule that binds specifically to a target molecule wherein the nucleic acid molecule has sequence that comprises a sequence recognized by the target molecule in its natural setting. Alternately, an aptamer can be a nucleic acid molecule that binds to

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a target molecule where the target molecule does not naturally bind to a nucleic acid. The target molecule can be any molecule of interest. For example, the aptamer can be used to bind to a ligand-binding domain of a protein, thereby preventing interaction of the naturally occurring ligand with the protein. This is a non-limiting example and those in the art will recognize that other embodiments can be readily generated using techniques generally known in the art. (See, for example, Gold et al., 1995, Annu. Rev. Biochem., 64, 763; Brody and Gold, 2000, J. Biotechnol., 74, 5; Sun, 2000, Curr. Opins. Mol. Ther., 2, 100; Kusser, 2000, J. Biotechnol., 74, 27; Hermann and Patel, 2000, Science, 287, 820; and Jayasena, 1999, Clinical Chemistry, 45, 1628.)

In yet another embodiment, a non-nucleotide linker of the invention comprises abasic nucleotide, polyether, polyamine, polyamide, peptide, carbohydrate, lipicl, polyhydrocarbon, or other polymeric compounds (e.g. polyethylene glycols such as those having between 2 and 100 ethylene glycol units). Specific examples include those described by Seela and Kaiser, Nucleic Acids Res. 1990, 18:6353 and Nucleic Acids Res. 1987, 15:3113; Cload and Schepartz, J. Am. Chem. Soc. 1991, 113:6324; Richardson and Schepartz, J. Am. Chem. Soc. 1991, 113:5109; Ma et al., Nucleic Acids Res. 1993, 21:2585 and Biochemistry 1993, 32:1751; Durand et al., Nucleic Acids Res. 1990, 18:6353; McCurdy et al., Nucleosides & Nucleotides 1991, 10:287; Jschke et al., Tetrahedron Lett. 1993, 34:301; Ono et al., Biochemistry 1991, 30:9914; Arnold et a... International Publication No. WO 89/02439; Usman et al., International Publication No. WO 95/06731; Dudycz et al., International Publication No. WO 95/11910 and Ferentz and Verdine, J. Am. Chem. Soc. 1991, 113:4000, all hereby incorporated by reference herein. A "non-nucleotide" further means any group or compound that can be incorporated into a nucleic acid chain in the place of one or more nucleotide units, including either sugar and/or phosphate substitutions, and allows the remaining bases to exhibit their enzymatic activity. The group or compound can be abasic in that it does not contain a commonly recognized nucleotide base, such as adenosine, guanine, cytosine, uracil or thymine, for example at the C1 position of the sugar.

In one embodiment, the invention features a short interfering nucleic acid (siNA) molecule capable of mediating RNA interference (RNAi) inside a cell or reconstituted *in vitro* system, wherein one or both strands of the siNA molecule that are assembled from

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two separate oligonucleotides do not comprise any ribonucleotides. For example, a siNA molecule can be assembled from a single oligonculeotide where the sense and antisense regions of the siNA comprise separate oligonucleotides that do not have any ribonucleotides (e.g., nucleotides having a 2'-OH group) present in the oligonucleotides. In another example, a siNA molecule can be assembled from a single oligonucleotide where the sense and antisense regions of the siNA are linked or circularized by a nucleotide or non-nucleotide linker as described herein, wherein the oligonucleotide does not have any ribonucleotides (e.g., nucleotides having a 2'-OH group) present in the oligonucleotide. Applicant has surprisingly found that the presense of ribonucleotides (e.g., nucleotides having a 2'-hydroxyl group) within the siNA molecule is not required or essential to support RNAi activity. As such, in one embodiment, all positions within the siNA can include chemically modified nucleotides and/or non-nucleotides such as nucleotides and or non-nucleotides having Formula I, II, III, IV, V, VI, or VII or any combination thereof to the extent that the ability of the siNA molecule to support RNAi activity in a cell is maintained.

In one embodiment, a siNA molecule of the invention is a single stranded siNA molecule that mediates RNAi activity in a cell or reconstituted *in vitro* system comprising a single stranded polynucleotide having complementarity to a target nucleic acid sequence. In another embodiment, the single stranded siNA molecule of the invention comprises a 5'-terminal phosphate group. In another embodiment, the single stranded siNA molecule of the invention comprises a 5'-terminal phosphate group and a 3'-terminal phosphate group (e.g., a 2',3'-cyclic phosphate). In another embodiment, the single stranded siNA molecule of the invention comprises about 15 to about 30 (e.g., about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30) nucleotides. In yet another embodiment, the single stranded siNA molecule of the invention comprises one or more chemically modified nucleotides or non-nucleotides described herein. For example, all the positions within the siNA molecule can include chemically-modified nucleotides such as nucleotides having any of Formulae I-VII, or any combination thereof to the extent that the ability of the siNA molecule to support RNAi activity in a cell is maintained.

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In one embodiment, a siNA molecule of the invention is a single stranded siNA molecule that mediates RNAi activity in a cell or reconstituted in vitro system comprising a single stranded polynucleotide having complementarity to a target nucleic acid sequence, wherein one or more pyrimidine nucleotides present in the siNA are 2'deoxy-2'-fluoro pyrimidine nucleotides (e.g., wherein all pyrimidine nucleotides are 2'deoxy-2'-fluoro pyrimidine nucleotides or alternately a plurality of pyrimidine nucleotides are 2'-deoxy-2'-fluoro pyrimidine nucleotides), and wherein any purine nucleotides present in the antisense region are 2'-O-methyl purine nucleotides (e.g., wherein all purine nucleotides are 2'-O-methyl purine nucleotides or alternately a plurality of purine nucleotides are 2'-O-methyl purine nucleotides), and a terminal cap modification, such as any modification described herein or shown in Figure 10, that is optionally present at the 3'-end, the 5'-end, or both of the 3' and 5'-ends of the antisense sequence. The siNA optionally further comprises about 1 to about 4 or more (e.g., about 1, 2, 3, 4 or more) terminal 2'-deoxynucleotides at the 3'-end of the siNA molecule, wherein the terminal nucleotides can further comprise one or more (e.g., 1, 2, 3, 4 or more) phosphorothioate, phosphonoacetate, and/or thiophosphonoacetate internucleotide linkages, and wherein the siNA optionally further comprises a terminal phosphate group, such as a 5'-terminal phosphate group. In any of these embodiments, any purine nucleotides present in the antisense region are alternatively 2'-deoxy purine nucleotides (e.g., wherein all purine nucleotides are 2'-deoxy purine nucleotides or alternately a plurality of purine nucleotides are 2'-deoxy purine nucleotides). Also, in any of these embodiments, any purine nucleotides present in the siNA (i.e., purine nucleotides present in the sense and/or antisense region) can alternatively be locked nucleic acid (LNA) nucleotides (e.g., wherein all purine nucleotides are LNA nucleotides or alternately a plurality of purine nucleotides are LNA nucleotides). Also, in any of these embodiments, any purine nucleotides present in the siNA are alternatively 2'methoxyethyl purine nucleotides (e.g., wherein all purine nucleotides are 2'methoxyethyl purine nucleotides or alternately a plurality of purine nucleotides are 2'methoxyethyl purine nucleotides). In another embodiment, any modified nucleotides present in the single stranded siNA molecules of the invention comprise modified nucleotides having properties or characteristics similar to naturally occurring ribonucleotides. For example, the invention features siNA molecules including modified

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nucleotides having a Northern conformation (e.g., Northern pseudorotation cycle, see for example Saenger, *Principles of Nucleic Acid Structure*, Springer-Verlag ed., 1984). As such, chemically modified nucleotides present in the single stranded siNA molecules of the invention are preferably resistant to nuclease degradation while at the same time maintaining the capacity to mediate RNAi.

In one embodiment, a siNA molecule of the invention comprises chemically modified nucleotides or non-nucleotides (e.g., having any of Formulae I-VII, such as 2'deoxy, 2'-deoxy-2'-fluoro, or 2'-O-methyl nucleotides) at alternating positions within one or more strands or regions of the siNA molecule. For example, such chemical modifications can be introduced at every other position of a RNA based siNA molecule, starting at either the first or second nucleotide from the 3'-end or 5'-end of the siNA. In a non-limiting example, a double stranded siNA molecule of the invention in which each strand of the siNA is 21 nucleotides in length is featured wherein positions 1, 3, 5, 7, 9, 11, 13, 15, 17, 19 and 21 of each strand are chemically modified (e.g., with compounds having any of Formulae 1-VII, such as such as 2'-deoxy, 2'-deoxy-2'-fluoro, or 2'-Omethyl nucleotides). In another non-limiting example, a double stranded siNA molecule of the invention in which each strand of the siNA is 21 nucleotides in length is featured wherein positions 2, 4, 6, 8, 10, 12, 14, 16, 18, and 20 of each strand are chemically modified (e.g., with compounds having any of Formulae 1-VII, such as 2'-deoxy, 2'-deoxy-2'-fluoro, or 2'-O-methyl nucleotides). Such siNA molecules can further comprise terminal cap moieties and/or backbone modifications as described herein.

In one embodiment, the invention features a method for modulating the expression of a target gene within a cell comprising: (a) synthesizing a siNA molecule of the invention, which can be chemically-modified, wherein one of the siNA strands comprises a sequence complementary to RNA of the target gene; and (b) introducing the siNA molecule into a cell under conditions suitable to modulate the expression of the target gene in the cell.

In one embodiment, the invention features a method for modulating the expression of a target gene within a cell comprising: (a) synthesizing a siNA molecule of the invention, which can be chemically-modified, wherein one of the siNA strands comprises a sequence complementary to RNA of the target gene and wherein the sense

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suand sequence of the sinA comprises a sequence identical or substantially similar to the sequence of the target RNA; and (b) introducing the sinA molecule into a cell under conditions suitable to modulate the expression of the target gene in the cell.

In another embodiment, the invention features a method for modulating the expression of more than one target gene within a cell comprising: (a) synthesizing siNA molecules of the invention, which can be chemically-modified, wherein one of the siNA strands comprises a sequence complementary to RNA of the target genes; and (b) introducing the siNA molecules into a cell under conditions suitable to modulate the expression of the target genes in the cell.

In another embodiment, the invention features a method for modulating the expression of two or more target genes within a cell comprising: (a) synthesizing one or more siNA molecules of the invention, which can be chemically-modified, wherein the siNA strands comprise sequences complementary to RNA of the target genes and wherein the sense strand sequences of the siNAs comprise sequences identical or substantially similar to the sequences of the target RNAs; and (b) introducing the siNA molecules into a cell under conditions suitable to modulate the expression of the target genes in the cell.

In another embodiment, the invention features a method for modulating the expression of more than one target gene within a cell comprising: (a) synthesizing a siNA molecule of the invention, which can be chemically-modified, wherein one of the siNA strands comprises a sequence complementary to RNA of the target gene and wherein the sense strand sequence of the siNA comprises a sequence identical or substantially similar to the sequences of the target RNAs; and (b) introducing the siNA molecule into a cell under conditions suitable to modulate the expression of the target genes in the cell.

In one embodiment, siNA molecules of the invention are used as reagents in ex vivo applications. For example, siNA reagents are introduced into tissue or cells that are transplanted into a subject for therapeutic effect. The cells and/or tissue can be derived from an organism or subject that later receives the explant, or can be derived from another organism or subject prior to transplantation. The siNA molecules can be used to

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modulate the expression of one or more target genes in the cells or tissue, such that the cells or tissue obtain a desired phenotype or are able to perform a function when transplanted in vivo. In one embodiment, certain target cells from a patient are extracted. These extracted cells are contacted with siNAs targeting a specific nucleotide sequence within the cells under conditions suitable for uptake of the siNAs by these cells (e.g. using delivery reagents such as cationic lipids, liposomes and the like or using techniques such as electroporation to facilitate the delivery of siNAs into cells). The cells are then reintroduced back into the same patient or other patients. In one embodiment, the invention features a method of modulating the expression of a target gene in a tissue explant comprising: (a) synthesizing a siNA molecule of the invention, which can be chemically-modified, wherein one of the siNA strands comprises a sequence complementary to RNA of the target gene; and (b) introducing the siNA molecule into a cell of the tissue explant derived from a particular organism under conditions suitable to modulate the expression of the target gene in the tissue explant. In another embodiment, the method further comprises introducing the tissue explant back into the organism the tissue was derived from or into another organism under conditions suitable to modulate the expression of the target gene in that organism.

In one embodiment, the invention features a method of modulating the expression of a target gene in a tissue explant comprising: (a) synthesizing a siNA molecule of the invention, which can be chemically-modified, wherein one of the siNA strands comprises a sequence complementary to RNA of the target gene and wherein the sense strand sequence of the siNA comprises a sequence identical or substantially similar to the sequence of the target RNA; and (b) introducing the siNA molecule into a cell of the tissue explant derived from a particular organism under conditions suitable to modulate the expression of the gene in the tissue explant. In another embodiment, the method further comprises introducing the tissue explant back into the organism the tissue was derived from or into another organism under conditions suitable to modulate the expression of the target gene in that organism.

In another embodiment, the invention features a method of modulating the expression of more than one target gene in a tissue explant comprising: (a) synthesizing siNA molecules of the invention, which can be chemically-modified, wherein one of the

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siNA strands comprises a sequence complementary to RNA of the target genes; and (b) introducing the siNA molecules into a cell of the tissue explant derived from a particular organism under conditions suitable to modulate the expression of the target genes in the tissue explant. In another embodiment, the method further comprises introducing the tissue explant back into the organism the tissue was derived from or into another organism under conditions suitable to modulate the expression of the target genes in that organism.

In one embodiment, the invention features a method of modulating the expression of a target gene in a subject or organism comprising: (a) synthesizing a siNA molecule of the invention, which can be chemically-modified, wherein one of the siNA strands comprises a sequence complementary to RNA of the target gene; and (b) introducing the siNA molecule into the subject or organism under conditions suitable to modulate the expression of the target gene in the subject or organism. The level of protein or RNA can be determined using various methods well-known in the art.

In another embodiment, the invention features a method of modulating the expression of more than one target gene in a subject or organism comprising: (a) synthesizing siNA molecules of the invention, which can be chemically-modified, wherein one of the siNA strands comprises a sequence complementary to RNA of the target genes; and (b) introducing the siNA molecules into the subject or organism under conditions suitable to modulate the expression of the target genes in the subject or organism. The level of protein or RNA can be determined as is known in the art.

In one embodiment, the invention features a method for modulating the expression of a target gene within a cell comprising: (a) synthesizing a siNA molecule of the invention, which can be chemically-modified, wherein the siNA comprises a single stranded sequence having complementarity to RNA of the target gene; and (b) introducing the siNA molecule into a cell under conditions suitable to modulate the expression of the target gene in the cell.

In another embodiment, the invention features a method for modulating the expression of more than one target gene within a cell comprising: (a) synthesizing siNA molecules of the invention, which can be chemically-modified, wherein the siNA

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comprises a single stranded sequence having complementarity to RNA of the target gene; and (b) contacting the cell *in vitro* or *in vivo* with the siNA molecule under conditions suitable to modulate the expression of the target genes in the cell.

In one embodiment, the invention features a method of modulating the expression of a target gene in a tissue explant comprising: (a) synthesizing a siNA moleculæ of the invention, which can be chemically-modified, wherein the siNA comprises a single stranded sequence having complementarity to RNA of the gene; and (b) contacting a cell of the tissue explant derived from a particular subject or organism with the siNA molecule under conditions suitable to modulate the expression of the target gene in the tissue explant. In another embodiment, the method further comprises introducing the tissue explant back into the subject or organism the tissue was derived from or into another subject or organism under conditions suitable to modulate the expression of the target gene in that subject or organism.

In another embodiment, the invention features a method of modulating the expression of more than one target gene in a tissue explant comprising: (a) synthesizing siNA molecules of the invention, which can be chemically-modified, wherein the siNA comprises a single stranded sequence having complementarity to RNA of the target gene; and (b) introducing the siNA molecules into a cell of the tissue explant derived from a particular subject or organism under conditions suitable to modulate the expression of the target genes in the tissue explant. In another embodiment, the method further comprises introducing the tissue explant back into the subject or organism the tissue was derived from or into another subject or organism under conditions suitable to modulate the expression of the target genes in that subject or organism.

In one embodiment, the invention features a method of modulating the expression of a target gene in a subject or organism comprising: (a) synthesizing a siNA molecule of the invention, which can be chemically-modified, wherein the siNA comprises a single stranded sequence having complementarity to RNA of the target gene; and (b) introducing the siNA molecule into the subject or organism under conditions suitable to modulate the expression of the target gene in the subject or organism.

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In another embodiment, the invention features a method of modulating the expression of more than one target gene in a subject or organism comprising: (a) synthesizing siNA molecules of the invention, which can be chemically-modified, wherein the siNA comprises a single stranded sequence having complementarity to RNA of the target gene; and (b) introducing the siNA molecules into the subject or organism under conditions suitable to modulate the expression of the target genes in the subject or organism.

In one embodiment, the invention features a method of modulating the expression of a target gene in a subject or organism comprising contacting the subject or organism with a siNA molecule of the invention under conditions suitable to modulate the expression of the target gene in the subject or organism.

In one embodiment, the invention features a method for treating or preventing a disease, disorder, trait or condition related to gene expression in a subject or organism comprising contacting the subject or organism with a siNA molecule of the invention under conditions suitable to modulate the expression of the target gene in the subject or organism. The reduction of gene expression and thus reduction in the level of the respective protein/RNA relieves, to some extent, the symptoms of the disease, disorder, trait or condition.

In one embodiment, the invention features a method for treating or preventing cancer in a subject or organism comprising contacting the subject or organism with a siNA molecule of the invention under conditions suitable to modulate the expression of a target gene associated with the maintenance or development of cancer in the subject or organism.

In one embodiment, the invention features a method for treating or preventing a proliferative disease, disorder, trait or condition in a subject or organism comprising contacting the subject or organism with a siNA molecule of the invention under conditions suitable to modulate the expression of a target gene associated with the maintenance or development of the proliferative disease, disorder, trait or condition in the subject or organism.

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In one embodiment, the invention features a method for treating or preventing transplant and/or tissue rejection (allograft rejection) in a subject or organism comprising contacting the subject or organism with a siNA molecule of the invention under conditions suitable to modulate the expression of a target gene associated with transplant and/or tissue rejection (allograft rejection) in the subject or organism.

In one embodiment, the invention features a method for treating or preventing an autoimmune disease, disorder, trait or condition in a subject or organism comprising contacting the subject or organism with a siNA molecule of the invention under conditions suitable to modulate the expression of a target gene associated with the maintenance or development of the autoimmune disease, disorder, trait or condition in the subject or organism.

In one embodiment, the invention features a method for treating or preventing an infectious disease, disorder, trait or condition in a subject or organism comprising contacting the subject or organism with a siNA molecule of the invention under conditions suitable to modulate the expression of a target gene associated with the maintenance or development of the infectious disease, disorder, trait or condition in the subject or organism.

In one embodiment, the invention features a method for treating or preventing an age-related disease, disorder, trait or condition in a subject or organism comprising contacting the subject or organism with a siNA molecule of the invention under conditions suitable to modulate the expression of a target gene associated with the maintenance or development of the age-related disease, disorder, trait or condition in the subject or organism.

In one embodiment, the invention features a method for treating or preventing a neurologic or neurodegenerative disease, disorder, trait or condition in a subject or organism comprising contacting the subject or organism with a siNA molecule of the invention under conditions suitable to modulate the expression of a target gene associated with the maintenance or development of the neurologic or neurodegenerative disease, disorder, trait or condition in the subject or organism.

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In one embodiment, the invention features a method for treating or preventing a metabolic disease, disorder, trait or condition in a subject or organism comprising contacting the subject or organism with a siNA molecule of the invention under conditions suitable to modulate the expression of a target gene associated with the maintenance or development of the metabolic disease, disorder, trait or condition in the subject or organism.

In one embodiment, the invention features a method for treating or preventing an cardiovascular disease, disorder, trait or condition in a subject or organism comprising contacting the subject or organism with a siNA molecule of the invention under conditions suitable to modulate the expression of a target gene associated with the maintenance or development of the cardiovascular disease, disorder, trait or condition in the subject or organism.

In one embodiment, the invention features a method for treating or preventing a respiratory disease, disorder, trait or condition in a subject or organism comprising contacting the subject or organism with a siNA molecule of the invention under conditions suitable to modulate the expression of a target gene associated with the maintenance or development of the respiratory disease, disorder, trait or condition in the subject or organism.

In one embodiment, the invention features a method for treating or preventing an ocular disease, disorder, trait or condition in a subject or organism comprising contacting the subject or organism with a siNA molecule of the invention under conditions suitable to modulate the expression of a target gene associated with the maintenance or development of the ocular disease, disorder, trait or condition in the subject or organism.

In one embodiment, the invention features a method for treating or preventing a dermatological disease, disorder, trait or condition in a subject or organism comprising contacting the subject or organism with a siNA molecule of the invention under conditions suitable to modulate the expression of a target gene associated with the maintenance or development of the dermatological disease, disorder, trait or condition in the subject or organism.

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In one embodiment, the invention features a method for treating or preventing a disease, disorder, trait or condition in a subject or organism comprising contacting the subject or organism with a siNA molecule of the invention under conditions suitable to modulate the expression of a target gene associated with the maintenance or development of the disease, disorder, trait or condition in the subject or organism.

In one embodiment, the invention features a method for treating or preventing a liver disease, disorder, trait or condition in a subject or organism comprising contacting the subject or organism with a siNA molecule of the invention under conditions suitable to modulate the expression of a target gene associated with the maintenance or development of the liver disease, disorder, trait or condition in the subject or organism.

In one embodiment, the invention features a method for treating or preventing a kidney disease, disorder, trait or condition in a subject or organism comprising contacting the subject or organism with a siNA molecule of the invention under conditions suitable to modulate the expression of a target gene associated with the maintenance or development of the kidney disease, disorder, trait or condition in the subject or organism.

In one embodiment, the invention features a method for treating or preventing a bladder disease, disorder, trait or condition in a subject or organism comprising contacting the subject or organism with a siNA molecule of the invention under conditions suitable to modulate the expression of a target gene associated with the maintenance or development of the bladder disease, disorder, trait or condition in the subject or organism.

In another embodiment, the invention features a method of modulating the expression of more than one target gene in a subject or organism comprising contacting the subject or organism with one or more siNA molecules of the invention under conditions suitable to modulate the expression of the genes in the subject or organism.

The siNA molecules of the invention can be designed to down regulate or inhibit target gene expression through RNAi targeting of a variety of RNA molecules. In one embodiment, the siNA molecules of the invention are used to target various RNAs corresponding to a target gene. Non-limiting examples of such RNAs include messenger

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RNA (mRNA), alternate RNA splice variants of target gene(s), post-transcriptionally modified RNA of target gene(s), pre-mRNA of target gene(s), and/or RNA templates. If alternate splicing produces a family of transcripts that are distinguished by usage of appropriate exons, the instant invention can be used to inhibit gene expression through the appropriate exons to specifically inhibit or to distinguish among the functions of gene family members. For example, a protein that contains an alternatively stpliced transmembrane domain can be expressed in both membrane bound and secreted forms. Use of the invention to target the exon containing the transmembrane domain can be used to determine the functional consequences of pharmaceutical targeting of mem brane bound as opposed to the secreted form of the protein. Non-limiting examples of applications of the invention relating to targeting these RNA molecules include therapeutic pharmaceutical applications, pharmaceutical discovery applications, molecular diagnostic and gene function applications, and gene mapping, for example using single nucleotide polymorphism mapping with siNA molecules of the invention. Such applications can be implemented using known gene sequences or from partial sequences available from an expressed sequence tag (EST).

In another embodiment, the siNA molecules of the invention are used to target conserved sequences corresponding to a target gene family or target gene families. As such, siNA molecules targeting multiple gene targets can provide increased therapeutic effect. In addition, siNA can be used to characterize pathways of gene function in a variety of applications. For example, the present invention can be used to inhibit the activity of target gene(s) in a pathway to determine the function of uncharacterized gene(s) in gene function analysis, mRNA function analysis, or translational analysis. The invention can be used to determine potential target gene pathways involved in various diseases and conditions toward pharmaceutical development. The invention can be used to understand pathways of gene expression involved in diseases, traits, disorders, and/or conditions described herein or otherwise known in the art.

In one embodiment, siNA molecule(s) and/or methods of the invention are used to down regulate the expression of gene(s) that encode RNA referred to by Genbank Accession, for example, target genes encoding RNA sequence(s) referred to herein by Genbank Accession number, for example, Genbank Accession Nos. shown in Table I.

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In one embodiment, the invention features a method comprising: (a) generating a library of siNA constructs having a predetermined complexity; and (b) assaying the siNA constructs of (a) above, under conditions suitable to determine RNAi target sites within the target RNA sequence. In one embodiment, the siNA molecules of (a) have strands of a fixed length, for example, about 23 nucleotides in length. In another embodiment, the siNA molecules of (a) are of differing length, for example having strands of about 15 to about 30 (e.g., about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30) nucleotides in length. In one embodiment, the assay can comprise a reconstituted *in vitro* siNA assay as described herein. In another embodiment, the assay can comprise a cell culture system in which target RNA is expressed. In another embodiment, fragments of target RNA are analyzed for detectable levels of cleavage, for example by gel electrophoresis, northern blot analysis, or RNAse protection assays, to determine the most suitable target site(s) within the target RNA sequence. The target RNA sequence can be obtained as is known in the art, for example, by cloning and/or transcription for *in vitro* systems, and by cellular expression in *in vivo* systems.

In one embodiment, the invention features a method comprising: (a) generating a randomized library of siNA constructs having a predetermined complexity, such as of 4N, where N represents the number of base paired nucleotides in each of the siNA construct strands (eg. for a siNA construct having 21 nucleotide sense and antisense strands with 19 base pairs, the complexity would be 4¹⁹); and (b) assaying the siNA constructs of (a) above, under conditions suitable to determine RNAi target sites within the target RNA sequence. In another embodiment, the siNA molecules of (a) have strands of a fixed length, for example about 23 nucleotides in length. In yet another embodiment, the siNA molecules of (a) are of differing length, for example having strands of about 15 to about 30 (e.g., about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30) nucleotides in length. In one embodiment, the assay can comprise a reconstituted in vitro siNA assay as described in Example 6 herein. In another embodiment, the assay can comprise a cell culture system in which target RNA is expressed. In another embodiment, fragments of target RNA are analyzed for detectable levels of cleavage, for example, by gel electrophoresis, northern blot analysis, or RNAse protection assays, to determine the most suitable target site(s) within the target target RNA sequence. The target target

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RNA sequence can be obtained as is known in the art, for example, by cloning and/or transcription for *in vitro* systems, and by cellular expression in *in vivo* systems.

In another embodiment, the invention features a method comprising: (a) analyzing the sequence of a RNA target encoded by a target gene; (b) synthesizing one or more sets of siNA molecules having sequence complementary to one or more regions of the RNA of (a); and (c) assaying the siNA molecules of (b) under conditions suitable to determine RNAi targets within the target RNA sequence. In one embodiment, the siNA molecules of (b) have strands of a fixed length, for example about 23 nucleotides in length. In another embodiment, the siNA molecules of (b) are of differing length, for example having strands of about 15 to about 30 (e.g., about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30) nucleotides in length. In one embodiment, the assay can comprise a reconstituted in vitro siNA assay as described herein. In another embodiment, the assay can comprise a cell culture system in which target RNA is expressed. Fragments of target RNA are analyzed for detectable levels of cleavage, for example by gel electrophoresis, northern blot analysis, or RNAse protection assays, to determine the most suitable target site(s) within the target RNA sequence. The target RNA sequence can be obtained as is known in the art, for example, by cloning and/or transcription for in vitro systems, and by expression in in vivo systems.

By "target site" is meant a sequence within a target RNA that is "targeted" for cleavage mediated by a siNA construct which contains sequences within its antisense region that are complementary to the target sequence.

By "detectable level of cleavage" is meant cleavage of target RNA (and formation of cleaved product RNAs) to an extent sufficient to discern cleavage products above the background of RNAs produced by random degradation of the target RNA. Production of cleavage products from 1-5% of the target RNA is sufficient to detect above the background for most methods of detection.

In one embodiment, the invention features a composition comprising a siNA molecule of the invention, which can be chemically-modified, in a pharmaceutically acceptable carrier or diluent. In another embodiment, the invention features a pharmaceutical composition comprising siNA molecules of the invention, which can be

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chemically-modified, targeting one or more genes in a pharmaceutically acceptable carrier or diluent. In another embodiment, the invention features a method for diagnosing a disease or condition in a subject comprising administering to the subject a composition of the invention under conditions suitable for the diagnosis of the disease or condition in the subject. In another embodiment, the invention features a method for treating or preventing a disease or condition in a subject, comprising administering to the subject a composition of the invention under conditions suitable for the treatment or prevention of the disease or condition in the subject, alone or in conjunction with one or more other therapeutic compounds. In yet another embodiment, the invention features a method for treating or preventing diseases, traits, disorders, and/or conditions in a subject or organism comprising administering to the subject a composition of the invention under conditions suitable for the treatment or prevention of the disease, trait, disorder, and/or condition in the subject or organism.

In another embodiment, the invention features a method for validating a gene target, comprising: (a) synthesizing a siNA molecule of the invention, which can be chemically-modified, wherein one of the siNA strands includes a sequence complementary to RNA of a target gene; (b) introducing the siNA molecule into a cell, tissue, subject, or organism under conditions suitable for modulating expression of the target gene in the cell, tissue, subject, or organism; and (c) determining the function of the target gene by assaying for any phenotypic change in the cell, tissue, subject, or organism.

In another embodiment, the invention features a method for validating a gene target comprising: (a) synthesizing a siNA molecule of the invention, which can be chemically-modified, wherein one of the siNA strands includes a sequence complementary to RNA of a target gene; (b) introducing the siNA molecule into a biological system under conditions suitable for modulating expression of the target gene in the biological system; and (c) determining the function of the gene by assaying for any phenotypic change in the biological system.

By "biological system" is meant, material, in a purified or unpurified form, from biological sources, including but not limited to human or animal, wherein the system comprises the components required for RNAi activity. The term "biological system"

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includes, for example, a cell, tissue, subject, or organism, or extract thereof. The term biological system also includes reconstituted RNAi systems that can be used in an *in vitro* setting.

By "phenotypic change" is meant any detectable change to a cell that occurs in response to contact or treatment with a nucleic acid molecule of the invention (e.g., siNA). Such detectable changes include, but are not limited to, changes in shape, size, proliferation, motility, protein expression or RNA expression or other physical or chemical changes as can be assayed by methods known in the art. The detectable change can also include expression of reporter genes/molecules such as Green Florescent Protein (GFP) or various tags that are used to identify an expressed protein or any other cellular component that can be assayed.

In one embodiment, the invention features a kit containing a siNA molecule of the invention, which can be chemically-modified, that can be used to modulate the expression of a target gene in a biological system, including, for example, in a cell, tissue, subject, or organism. In another embodiment, the invention features a kit containing more than one siNA molecule of the invention, which can be chemically-modified, that can be used to modulate the expression of more than one target gene in a biological system, including, for example, in a cell, tissue, subject, or organism.

In one embodiment, the invention features a cell containing one or more siNA molecules of the invention, which can be chemically-modified. In another embodiment, the cell containing a siNA molecule of the invention is a mammalian cell. In yet another embodiment, the cell containing a siNA molecule of the invention is a human cell.

In one embodiment, the synthesis of a siNA molecule of the invention, which can be chemically-modified, comprises: (a) synthesis of two complementary strands of the siNA molecule; (b) annealing the two complementary strands together under conditions suitable to obtain a double-stranded siNA molecule. In another embodiment, synthesis of the two complementary strands of the siNA molecule is by solid phase oligonucleotide synthesis. In yet another embodiment, synthesis of the two complementary strands of the siNA molecule is by solid phase tandem oligonucleotide synthesis.

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In one embodiment, the invention features a method for synthesizing a siNA duplex molecule comprising: (a) synthesizing a first oligonucleotide sequence strand of the siNA molecule, wherein the first oligonucleotide sequence strand comprises a cleavable linker molecule that can be used as a scaffold for the synthesis of the second oligonucleotide sequence strand of the siNA; (b) synthesizing the second oligonucleotide sequence strand of siNA on the scaffold of the first oligonucleotide sequence strand, wherein the second oligonucleotide sequence strand further comprises a chemical moiety than can be used to purify the siNA duplex; (c) cleaving the linker molecule of (a) under conditions suitable for the two siNA oligonucleotide strands to hybridize and form a stable duplex; and (d) purifying the siNA duplex utilizing the chemical moiety of the second oligonucleotide sequence strand. In one embodiment, cleavage of the linker molecule in (c) above takes place during deprotection of the oligonucleotide, for example, under hydrolysis conditions using an alkylamine base such as methylamine. In one embodiment, the method of synthesis comprises solid phase synthesis on a solid support such as controlled pore glass (CPG) or polystyrene, wherein the first sequence of (a) is synthesized on a cleavable linker, such as a succinyl linker, using the solid support as a scaffold. The cleavable linker in (a) used as a scaffold for synthesizing the second strand can comprise similar reactivity as the solid support derivatized linker, such that cleavage of the solid support derivatized linker and the cleavable linker of (a) takes place concomitantly. In another embodiment, the chemical moiety of (b) that can be used to isolate the attached oligonucleotide sequence comprises a trityl group, for example a dimethoxytrityl group, which can be employed in a trityl-on synthesis strategy as described herein. In yet another embodiment, the chemical moiety, such as a dimethoxytrityl group, is removed during purification, for example, using acidic conditions.

In a further embodiment, the method for siNA synthesis is a solution phase synthesis or hybrid phase synthesis wherein both strands of the siNA duplex are synthesized in tandem using a cleavable linker attached to the first sequence which acts a scaffold for synthesis of the second sequence. Cleavage of the linker under conditions suitable for hybridization of the separate siNA sequence strands results in formation of the double-stranded siNA molecule.

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In another embodiment, the invention features a method for synthesizing a SINA duplex molecule comprising: (a) synthesizing one oligonucleotide sequence strand of the siNA molecule, wherein the sequence comprises a cleavable linker molecule that can be used as a scaffold for the synthesis of another oligonucleotide sequence; (b) synthesizing a second oligonucleotide sequence having complementarity to the first sequence strand on the scaffold of (a), wherein the second sequence comprises the other strand of the double-stranded siNA molecule and wherein the second sequence further comprises a chemical moiety than can be used to isolate the attached oligonucleotide sequence; (c) purifying the product of (b) utilizing the chemical moiety of the second oligonucleotide sequence strand under conditions suitable for isolating the full-length sequence comprising both siNA oligonucleotide strands connected by the cleavable linker and under conditions suitable for the two siNA oligonucleotide strands to hybridize and form a stable duplex. In one embodiment, cleavage of the linker molecule in (c) above takes place during deprotection of the oligonucleotide, for example, under hydrolysis conditions. In another embodiment, cleavage of the linker molecule in (c) above takes place after deprotection of the oligonucleotide. In another embodiment, the method of synthesis comprises solid phase synthesis on a solid support such as controlled pore glass (CPG) or polystyrene, wherein the first sequence of (a) is synthesized on a cleavable linker, such as a succinyl linker, using the solid support as a scaffold. The cleavable linker in (a) used as a scaffold for synthesizing the second strand can comprise similar reactivity or differing reactivity as the solid support derivatized linker, such that cleavage of the solid support derivatized linker and the cleavable linker of (a) takes place either concomitantly or sequentially. In one embodiment, the chemical moiety of (b) that can be used to isolate the attached oligonucleotide sequence comprises a trityl group, for example a dimethoxytrityl group.

In another embodiment, the invention features a method for making a double-stranded siNA molecule in a single synthetic process comprising: (a) synthesizing an oligonucleotide having a first and a second sequence, wherein the first sequence is complementary to the second sequence, and the first oligonucleotide sequence is linked to the second sequence via a cleavable linker, and wherein a terminal 5'-protecting group, for example, a 5'-O-dimethoxytrityl group (5'-O-DMT) remains on the oligonucleotide having the second sequence; (b) deprotecting the oligonucleotide whereby the

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deprotection results in the cleavage of the linker joining the two oligonucleotide sequences; and (c) purifying the product of (b) under conditions suitable for isolating the double-stranded siNA molecule, for example using a trityl-on synthesis strategy as described herein.

In another embodiment, the method of synthesis of siNA molecules of the invention comprises the teachings of Scaringe *et al.*, US Patent Nos. 5,889,136; 6,008,400; and 6,111,086, incorporated by reference herein in their entirety.

In one embodiment, the invention features siNA constructs that mediate RNAi against a target polynucleotide (e.g., DNA or RNA), wherein the siNA construct comprises one or more chemical modifications, for example, one or more chemical modifications having any of Formulae I-VII or any combination thereof that increases the nuclease resistance of the siNA construct.

In another embodiment, the invention features a method for generating siNA molecules with increased nuclease resistance comprising (a) introducing nucleotides having any of Formula I-VII or any combination thereof into a siNA molecule, and (b) assaying the siNA molecule of step (a) under conditions suitable for isolating siNA molecules having increased nuclease resistance.

In another embodiment, the invention features a method for generating siNA molecules with improved toxicologic profiles (e.g., have attenuated or no immunstimulatory properties) comprising (a) introducing nucleotides having any of Formula I-VII (e.g., siNA motifs referred to in **Table II**) or any combination thereof into a siNA molecule, and (b) assaying the siNA molecule of step (a) under conditions suitable for isolating siNA molecules having improved toxicologic profiles.

In another embodiment, the invention features a method for generating siNA molecules that do not stimulate an interferon response (e.g., no interferon response or attenuated interferon response) in a cell, subject, or organism, comprising (a) introducing nucleotides having any of Formula I-VII (e.g., siNA motifs referred to in **Table II**) or any combination thereof into a siNA molecule, and (b) assaying the siNA molecule of step (a) under conditions suitable for isolating siNA molecules that do not stimulate an interferon response.

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By "improved toxicologic profile", is meant that the chemically modified siNA construct exhibits decreased toxicity in a cell, subject, or organism compared to an unmodified siNA or siNA molecule having fewer modifications or modifications that are less effective in imparting improved toxicology. In a non-limiting example, siNA molecules with improved toxicologic profiles are associated with a decreased or attenuated immunostimulatory response in a cell, subject, or organism compared to an unmodified siNA or siNA molecule having fewer modifications or modifications that are less effective in imparting improved toxicology. In one embodiment, a siNA molecule with an improved toxicological profile comprises no ribonucleotides. embodiment, a siNA molecule with an improved toxicological profile comprises less than 5 ribonucleotides (e.g., 1, 2, 3, or 4 ribonucleotides). In one embodiment, a siNA molecule with an improved toxicological profile comprises Stab 7, Stab 8, Stab 11, Stab 12, Stab 13, Stab 16, Stab 17, Stab 18, Stab 19, Stab 20, Stab 23, Stab 24, Stab 25, Stab 26, Stab 27, Stab 28, Stab 29, Stab 30, Stab 31, Stab 32 or any combination thereof (see Table II). In one embodiment, the level of immunostimulatory response associated with a given siNA molecule can be measured as is known in the art, for example by determining the level of PKR/interferon response, proliferation, B-cell activation, and/or cytokine production in assays to quantitate the immunostimulatory response of particular siNA molecules (see, for example, Leifer et al., 2003, J Immunother. 26, 313-9; and U.S. Patent No. 5968909, incorporated in its entirety by reference).

In one embodiment, the invention features siNA constructs that mediate RNAi against a target polynucleotide (e.g., DNA or RNA), wherein the siNA construct comprises one or more chemical modifications described herein that modulates the binding affinity between the sense and antisense strands of the siNA construct.

In another embodiment, the invention features a method for generating siNA molecules with increased binding affinity between the sense and antisense strands of the siNA molecule comprising (a) introducing nucleotides having any of Formula I-VII or any combination thereof into a siNA molecule, and (b) assaying the siNA molecule of step (a) under conditions suitable for isolating siNA molecules having increased binding affinity between the sense and antisense strands of the siNA molecule.

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In one embodiment, the invention features siNA constructs that mediate RNAi against a target polynucleotide (e.g., DNA or RNA), wherein the siNA construct comprises one or more chemical modifications described herein that modulates the binding affinity between the antisense strand of the siNA construct and a complementary target RNA sequence within a cell.

In one embodiment, the invention features siNA constructs that mediate RNAi against a target polynucleotide (e.g., DNA or RNA), wherein the siNA construct comprises one or more chemical modifications described herein that modulates the binding affinity between the antisense strand of the siNA construct and a complementary target DNA sequence within a cell.

In another embodiment, the invention features a method for generating siNA molecules with increased binding affinity between the antisense strand of the siNA molecule and a complementary target RNA sequence comprising (a) introducing nucleotides having any of Formula I-VII or any combination thereof into a siNA molecule, and (b) assaying the siNA molecule of step (a) under conditions suitable for isolating siNA molecules having increased binding affinity between the antisense strand of the siNA molecule and a complementary target RNA sequence.

In another embodiment, the invention features a method for generating siNA molecules with increased binding affinity between the antisense strand of the siNA molecule and a complementary target DNA sequence comprising (a) introducing nucleotides having any of Formula I-VII or any combination thereof into a siNA molecule, and (b) assaying the siNA molecule of step (a) under conditions suitable for isolating siNA molecules having increased binding affinity between the antisense strand of the siNA molecule and a complementary target DNA sequence.

In one embodiment, the invention features siNA constructs that mediate RNAi against a target polynucleotide (e.g., DNA or RNA), wherein the siNA construct comprises one or more chemical modifications described herein that modulate the polymerase activity of a cellular polymerase capable of generating additional endogenous siNA molecules having sequence homology to the chemically-modified siNA construct.

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In another embodiment, the invention features a method for generating siNA molecules capable of mediating increased polymerase activity of a cellular polymerase capable of generating additional endogenous siNA molecules having sequence homology to a chemically-modified siNA molecule comprising (a) introducing nucleotides having any of Formula I-VII or any combination thereof into a siNA molecule, and (b) assaying the siNA molecule of step (a) under conditions suitable for isolating siNA molecules capable of mediating increased polymerase activity of a cellular polymerase capable of generating additional endogenous siNA molecules having sequence homology to the chemically-modified siNA molecule.

In one embodiment, the invention features chemically-modified siNA constructs that mediate RNAi against a target polynucleotide (e.g., DNA or RNA) in a cell, wherein the chemical modifications do not significantly effect the interaction of siNA with a target RNA molecule, DNA molecule and/or proteins or other factors that are essential for RNAi in a manner that would decrease the efficacy of RNAi mediated by such siNA constructs.

In another embodiment, the invention features a method for generating siNA molecules with improved RNAi activity against a target polynucleotide (e.g., DNA or RNA) comprising (a) introducing nucleotides having any of Formula I-VII or any combination thereof into a siNA molecule, and (b) assaying the siNA molecule of step (a) under conditions suitable for isolating siNA molecules having improved RNAi activity.

In yet another embodiment, the invention features a method for generating siNA molecules with improved RNAi activity against a target RNA comprising (a) introducing nucleotides having any of Formula I-VII or any combination thereof into a siNA molecule, and (b) assaying the siNA molecule of step (a) under conditions suitable for isolating siNA molecules having improved RNAi activity against the target RNA.

In yet another embodiment, the invention features a method for generating siNA molecules with improved RNAi activity against a target DNA comprising (a) introducing nucleotides having any of Formula I-VII or any combination thereof into a siNA

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molecule, and (b) assaying the siNA molecule of step (a) under conditions suitable for isolating siNA molecules having improved RNAi activity against the target DNA.

In one embodiment, the invention features siNA constructs that mediate RNAi against a target polynucleotide (e.g., DNA or RNA), wherein the siNA construct comprises one or more chemical modifications described herein that modulates the cellular uptake of the siNA construct.

In another embodiment, the invention features a method for generating siNA molecules against a target polynucleotide (e.g., DNA or RNA) with improved cellular uptake comprising (a) introducing nucleotides having any of Formula I-VII or any combination thereof into a siNA molecule, and (b) assaying the siNA molecule of step (a) under conditions suitable for isolating siNA molecules having improved cellular uptake.

In one embodiment, the invention features siNA constructs that mediate RNAi against a target polynucleotide (e.g., DNA or RNA), wherein the siNA construct comprises one or more chemical modifications described herein that increases the bioavailability of the siNA construct, for example, by attaching polymeric conjugates such as polyethyleneglycol or equivalent conjugates that improve the pharmacokinetics of the siNA construct, or by attaching conjugates that target specific tissue types or cell types *in vivo*. Non-limiting examples of such conjugates are described in Vargeese *et al.*, U.S. Serial No. 10/201,394 incorporated by reference herein.

In one embodiment, the invention features a method for generating siNA molecules of the invention with improved bioavailability comprising (a) introducing a conjugate into the structure of a siNA molecule, and (b) assaying the siNA molecule of step (a) under conditions suitable for isolating siNA molecules having improved bioavailability. Such conjugates can include ligands for cellular receptors, such as peptides derived from naturally occurring protein ligands; protein localization sequences, including cellular ZIP code sequences; antibodies; nucleic acid aptamers; vitamins and other co-factors, such as folate and N-acetylgalactosamine; polymers, such as polyethyleneglycol (PEG); phospholipids; cholesterol; polyamines, such as spermine or spermidine; and others.

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In one embodiment, the invention features a double stranded short interfering nucleic acid (siNA) molecule that comprises a first nucleotide sequence complementary to a target RNA sequence or a portion thereof, and a second sequence having complementarity to said first sequence, wherein said second sequence is chemically modified in a manner that it can no longer act as a guide sequence for efficiently mediating RNA interference and/or be recognized by cellular proteins that facilitate RNAi.

In one embodiment, the invention features a double stranded short interfering nucleic acid (siNA) molecule that comprises a first nucleotide sequence complementary to a target RNA sequence or a portion thereof, and a second sequence having complementarity to said first sequence, wherein the second sequence is designed or modified in a manner that prevents its entry into the RNAi pathway as a guide sequence or as a sequence that is complementary to a target nucleic acid (e.g., RNA) sequence. Such design or modifications are expected to enhance the activity of siNA and/or improve the specificity of siNA molecules of the invention. These modifications are also expected to minimize any off-target effects and/or associated toxicity.

In one embodiment, the invention features a double stranded short interfering nucleic acid (siNA) molecule that comprises a first nucleotide sequence complementary to a target RNA sequence or a portion thereof, and a second sequence having complementarity to said first sequence, wherein said second sequence is incapable of acting as a guide sequence for mediating RNA interference.

In one embodiment, the invention features a double stranded short interfering nucleic acid (siNA) molecule that comprises a first nucleotide sequence complementary to a target RNA sequence or a portion thereof, and a second sequence having complementarity to said first sequence, wherein said second sequence does not have a terminal 5'-hydroxyl (5'-OH) or 5'-phosphate group.

In one embodiment, the invention features a double stranded short interfering nucleic acid (siNA) molecule that comprises a first nucleotide sequence complementary to a target RNA sequence or a portion thereof, and a second sequence having complementarity to said first sequence, wherein said second sequence comprises a

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terminal cap moiety at the 5'-end of said second sequence. In one embodiment, the terminal cap moiety comprises an inverted abasic, inverted deoxy abasic, inverted nucleotide moiety, a group shown in **Figure 10**, an alkyl or cycloalkyl group, a heterocycle, or any other group that prevents RNAi activity in which the second sequence serves as a guide sequence or template for RNAi.

In one embodiment, the invention features a double stranded short interfering nucleic acid (siNA) molecule that comprises a first nucleotide sequence complementary to a target RNA sequence or a portion thereof, and a second sequence having complementarity to said first sequence, wherein said second sequence comprises a terminal cap moiety at the 5'-end and 3'-end of said second sequence. In one embodiment, each terminal cap moiety individually comprises an inverted abasic, inverted deoxy abasic, inverted nucleotide moiety, a group shown in **Figure 10**, an alkyl or cycloalkyl group, a heterocycle, or any other group that prevents RNAi activity in which the second sequence serves as a guide sequence or template for RNAi.

In one embodiment, the invention features a method for generating siNA molecules of the invention with improved specificity for down regulating or inhibiting the expression of a target nucleic acid (e.g., a DNA or RNA such as a gene or its corresponding RNA), comprising (a) introducing one or more chemical modifications into the structure of a siNA molecule, and (b) assaying the siNA molecule of step (a) under conditions suitable for isolating siNA molecules having improved specificity. In another embodiment, the chemical modification used to improve specificity comprises terminal cap modifications at the 5'-end, 3'-end, or both 5' and 3'-ends of the siNA molecule. The terminal cap modifications can comprise, for example, structures shown in Figure 10 (e.g. inverted deoxyabasic moieties) or any other chemical modification that renders a portion of the siNA molecule (e.g. the sense strand) incapable of mediating RNA interference against an off target nucleic acid sequence. In a non-limiting example, a siNA molecule is designed such that only the antisense sequence of the siNA molecule can serve as a guide sequence for RISC mediated degradation of a corresponding target RNA sequence. This can be accomplished by rendering the sense sequence of the siNA inactive by introducing chemical modifications to the sense strand that preclude recognition of the sense strand as a guide sequence by RNAi machinery. In one

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embodiment, such chemical modifications comprise any chemical group at the 5'-end or the sense strand of the siNA, or any other group that serves to render the sense strand inactive as a guide sequence for mediating RNA interference. These modifications, for example, can result in a molecule where the 5'-end of the sense strand no longer has a free 5'-hydroxyl (5'-OH) or a free 5'-phosphate group (e.g., phosphate, diphosphate, triphosphate, cyclic phosphate etc.). Non-limiting examples of such siNA constructs are described herein, such as "Stab 9/10", "Stab 7/8", "Stab 7/19", "Stab 17/22", "Stab 23/24", "Stab 24/25", and "Stab 24/26" (e.g., any siNA having Stab 7, 9, 17, 23, or 24 sense strands) chemistries and variants thereof (see **Table II**) wherein the 5'-end and 3'-end of the sense strand of the siNA do not comprise a hydroxyl group or phosphate group.

In one embodiment, the invention features a method for generating siNA molecules of the invention with improved specificity for down regulating or inhibiting the expression of a target nucleic acid (e.g., a DNA or RNA such as a gene or its corresponding RNA), comprising introducing one or more chemical modifications into the structure of a siNA molecule that prevent a strand or portion of the siNA molecule from acting as a template or guide sequence for RNAi activity. In one embodiment, the inactive strand or sense region of the siNA molecule is the sense strand or sense region of the siNA molecule, i.e. the strand or region of the siNA that does not have complementarity to the target nucleic acid sequence. In one embodiment, such chemical modifications comprise any chemical group at the 5'-end of the sense strand or region of the siNA that does not comprise a 5'-hydroxyl (5'-OH) or 5'-phosphate group, or any other group that serves to render the sense strand or sense region inactive as a guide sequence for mediating RNA interference. Non-limiting examples of such siNA constructs are described herein, such as "Stab 9/10", "Stab 7/8", "Stab 7/19", "Stab 17/22", "Stab 23/24", "Stab 24/25", and "Stab 24/26" (e.g., any siNA having Stab 7, 9, 17, 23, or 24 sense strands) chemistries and variants thereof (see Table II) wherein the 5'-end and 3'-end of the sense strand of the siNA do not comprise a hydroxyl group or phosphate group.

In one embodiment, the invention features a method for screening siNA molecules that are active in mediating RNA interference against a target nucleic acid sequence

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comprising (a) generating a plurality of unmodified siNA molecules, (b) screening the siNA molecules of step (a) under conditions suitable for isolating siNA molecules that are active in mediating RNA interference against the target nucleic acid sequence, and (c) introducing chemical modifications (e.g. chemical modifications as described herein or as otherwise known in the art) into the active siNA molecules of (b). In one embodiment, the method further comprises re-screening the chemically modified siNA molecules of step (c) under conditions suitable for isolating chemically modified siNA molecules that are active in mediating RNA interference against the target nucleic acid sequence.

In one embodiment, the invention features a method for screening chemically modified siNA molecules that are active in mediating RNA interference against a target nucleic acid sequence comprising (a) generating a plurality of chemically modified siNA molecules (e.g. siNA molecules as described herein or as otherwise known in the art), and (b) screening the siNA molecules of step (a) under conditions suitable for isolating chemically modified siNA molecules that are active in mediating RNA interference against the target nucleic acid sequence.

The term "ligand" refers to any compound or molecule, such as a drug, peptide, hormone, or neurotransmitter, that is capable of interacting with another compound, such as a receptor, either directly or indirectly. The receptor that interacts with a ligand can be present on the surface of a cell or can alternately be an intercellular receptor. Interaction of the ligand with the receptor can result in a biochemical reaction, or can simply be a physical interaction or association.

In another embodiment, the invention features a method for generating siNA molecules of the invention with improved bioavailability comprising (a) introducing an excipient formulation to a siNA molecule, and (b) assaying the siNA molecule of step (a) under conditions suitable for isolating siNA molecules having improved bioavailability. Such excipients include polymers such as cyclodextrins, lipids, cationic lipids, polyamines, phospholipids, nanoparticles, receptors, ligands, and others.

In another embodiment, the invention features a method for generating siNA molecules of the invention with improved bioavailability comprising (a) introducing

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nucleotides having any of Formulae I-VII or any combination thereof into a siNA molecule, and (b) assaying the siNA molecule of step (a) under conditions suitable for isolating siNA molecules having improved bioavailability.

In another embodiment, polyethylene glycol (PEG) can be covalently attached to siNA compounds of the present invention. The attached PEG can be any molecular weight, preferably from about 2,000 to about 50,000 daltons (Da).

The present invention can be used alone or as a component of a kit having at least one of the reagents necessary to carry out the *in vitro* or *in vivo* introduction of RNA to test samples and/or subjects. For example, preferred components of the kit include a siNA molecule of the invention and a vehicle that promotes introduction of the siNA into cells of interest as described herein (e.g., using lipids and other methods of transfection known in the art, see for example Beigelman *et al.*, US 6,395,713). The kit can be used for target validation, such as in determining gene function and/or activity, or in drug optimization, and in drug discovery (see for example Usman et al., USSN 60/402,996). Such a kit can also include instructions to allow a user of the kit to practice the invention.

The term "short interfering nucleic acid", "siNA", "short interfering RNA", "siRNA", "short interfering nucleic acid molecule", "short interfering oligonucleotide molecule", or "chemically-modified short interfering nucleic acid molecule" as used herein refers to any nucleic acid molecule capable of inhibiting or down regulating gene expression or viral replication, for example by mediating RNA interference "RNAi" or gene silencing in a sequence-specific manner; see for example Zamore et al., 2000, Cell, 101, 25-33; Bass, 2001, Nature, 411, 428-429; Elbashir et al., 2001, Nature, 411, 494-498; and Kreutzer et al., International PCT Publication No. WO 00/44895; Zernicka-Goetz et al., International PCT Publication No. WO 01/36646; Fire, International PCT Publication No. WO 99/32619; Plaetinck et al., International PCT Publication No. WO 00/01846; Mello and Fire, International PCT Publication No. WO 01/29058; Deschamps-Depaillette, International PCT Publication No. WO 99/07409; and Li et al., International PCT Publication No. WO 00/44914; Allshire, 2002, Science, 297, 1818-1819; Volpe et al., 2002, Science, 297, 1833-1837; Jenuwein, 2002, Science, 297, 2215-2218; and Hall et al., 2002, Science, 297, 2232-2237; Hutvagner and Zamore, 2002, Science, 297, 2056-60; McManus et al., 2002, RNA, 8, 842-850; Reinhart et al., 2002,

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Gene & Dev., 16, 1616-1626; and Reinhart & Bartel, 2002, Science, 297, 1831). Non limiting examples of siNA molecules of the invention are shown in Figures 4-6 herein. For example the siNA can be a double-stranded polynucleotide molecule comprising self-complementary sense and antisense regions, wherein the antisense region comprises nucleotide sequence that is complementary to nucleotide sequence in a target nucleic acid molecule or a portion thereof and the sense region having nucleotide sequence corresponding to the target nucleic acid sequence or a portion thereof. The siNA can be assembled from two separate oligonucleotides, where one strand is the sense strand and the other is the antisense strand, wherein the antisense and sense strands are selfcomplementary (i.e. each strand comprises nucleotide sequence that is complementary to nucleotide sequence in the other strand; such as where the antisense strand and sense strand form a duplex or double stranded structure, for example wherein the double stranded region is about 15 to about 30, e.g., about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29 or 30 base pairs; the antisense strand comprises nucleotide sequence that is complementary to nucleotide sequence in a target nucleic acid molecule or a portion thereof and the sense strand comprises nucleotide sequence corresponding to the target nucleic acid sequence or a portion thereof (e.g., about 15 to about 25 or more nucleotides of the siNA molecule are complementary to the target nucleic acid or a portion thereof). Alternatively, the siNA is assembled from a single oligonucleotide, where the self-complementary sense and antisense regions of the siNA are linked by means of a nucleic acid based or non-nucleic acid-based linker(s). The siNA can be a polynucleotide with a duplex, asymmetric duplex, hairpin or asymmetric hairpin secondary structure, having self-complementary sense and antisense regions, wherein the antisense region comprises nucleotide sequence that is complementary to nucleotide sequence in a separate target nucleic acid molecule or a portion thereof and the sense region having nucleotide sequence corresponding to the target nucleic acid sequence or a portion thereof. The siNA can be a circular single-stranded polynucleotide having two or more loop structures and a stem comprising self-complementary sense and antisense regions, wherein the antisense region comprises nucleotide sequence that is complementary to nucleotide sequence in a target nucleic acid molecule or a portion thereof and the sense region having nucleotide sequence corresponding to the target nucleic acid sequence or a portion thereof, and wherein the circular polynucleotide can

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be processed either in vivo or in vitro to generate an active siNA molecule capable of mediating RNAi. The siNA can also comprise a single stranded polynucleotide having nucleotide sequence complementary to nucleotide sequence in a target nucleic acid molecule or a portion thereof (for example, where such siNA molecule does not require the presence within the siNA molecule of nucleotide sequence corresponding to the target nucleic acid sequence or a portion thereof), wherein the single stranded polynucleotide can further comprise a terminal phosphate group, such as a 5'-phosphate (see for example Martinez et al., 2002, Cell., 110, 563-574 and Schwarz et al., 2002, Molecular Cell, 10, 537-568), or 5',3'-diphosphate. In certain embodiments, the siNA molecule of the invention comprises separate sense and antisense sequences or regions, wherein the sense and antisense regions are covalently linked by nucleotide or nonnucleotide linkers molecules as is known in the art, or are alternately non-covalently linked by ionic interactions, hydrogen bonding, van der waals interactions, hydrophobic interactions, and/or stacking interactions. In certain embodiments, the siNA molecules of the invention comprise nucleotide sequence that is complementary to nucleotide sequence of a target gene. In another embodiment, the siNA molecule of the invention interacts with nucleotide sequence of a target gene in a manner that causes inhibition of expression of the target gene. As used herein, siNA molecules need not be limited to those molecules containing only RNA, but further encompasses chemically-modified nucleotides and non-nucleotides. In certain embodiments, the short interfering nucleic acid molecules of the invention lack 2'-hydroxy (2'-OH) containing nucleotides. Applicant describes in certain embodiments short interfering nucleic acids that do not require the presence of nucleotides having a 2'-hydroxy group for mediating RNAi and as such, short interfering nucleic acid molecules of the invention optionally do not include any ribonucleotides (e.g., nucleotides having a 2'-OH group). Such siNA molecules that do not require the presence of ribonucleotides within the siNA molecule to support RNAi can however have an attached linker or linkers or other attached or associated groups, moieties, or chains containing one or more nucleotides with 2'-OH groups. Optionally, siNA molecules can comprise ribonucleotides at about 5, 10, 20, 30, 40, or 50% of the nucleotide positions. The modified short interfering nucleic acid molecules of the invention can also be referred to as short interfering modified oligonucleotides "siMON." As used herein, the term siNA is meant to be equivalent to

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other terms used to describe nucleic acid molecules that are capable of mediating sequence specific RNAi, for example short interfering RNA (siRNA), double-stranded RNA (dsRNA), micro-RNA (miRNA), short hairpin RNA (shRNA), short interfering oligonucleotide, short interfering nucleic acid, short interfering modified oligonucleotide, chemically-modified siRNA, post-transcriptional gene silencing RNA (ptgsRNA), and others. In addition, as used herein, the term RNAi is meant to be equivalent to other terms used to describe sequence specific RNA interference, such as post transcriptional gene silencing, translational inhibition, or epigenetics. For example, siNA molecules of the invention can be used to epigenetically silence genes at both the post-transcriptional level or the pre-transcriptional level. In a non-limiting example, epigenetic regulation of gene expression by siNA molecules of the invention can result from siNA mediated modification of chromatin structure or methylation pattern to alter gene expression (see, for example, Verdel et al., 2004, Science, 303, 672-676; Pal-Bhadra et al., 2004, Science, 303, 669-672; Allshire, 2002, Science, 297, 1818-1819; Volpe et al., 2002, Science, 297, 1833-1837; Jenuwein, 2002, Science, 297, 2215-2218; and Hall et al., 2002, Science, 297, 2232-2237).

In one embodiment, a siNA molecule of the invention is a duplex forming oligonucleotide "DFO", (see for example **Figures 14-15** and Vaish et al., USSN 10/727,780 filed December 3, 2003 and International PCT Application No. US04/16390, filed May 24, 2004).

In one embodiment, a siNA molecule of the invention is a multifunctional siNA, (see for example **Figures 16-21** and Jadhav *et al.*, USSN 60/543,480 filed February 10, 2004 and International PCT Application No. US04/16390, filed May 24, 2004). The multifunctional siNA of the invention can comprise sequence targeting, for example, two regions of target RNA.

By "asymmetric hairpin" as used herein is meant a linear siNA molecule comprising an antisense region, a loop portion that can comprise nucleotides or non-nucleotides, and a sense region that comprises fewer nucleotides than the antisense region to the extent that the sense region has enough complementary nucleotides to base pair with the antisense region and form a duplex with loop. For example, an asymmetric hairpin siNA molecule of the invention can comprise an antisense region having length

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sufficient to mediate RNAi in a cell or in vitro system (e.g. about 15 to about 30, or about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30 nucleotides) and a loop region comprising about 4 to about 12 (e.g., about 4, 5, 6, 7, 8, 9, 10, 11, or 12) nucleotides, and a sense region having about 3 to about 25 (e.g., about 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, or 25) nucleotides that are complementary to the antisense region. The asymmetric hairpin siNA molecule can also comprise a 5'-terminal phosphate group that can be chemically modified. The loop portion of the asymmetric hairpin siNA molecule can comprise nucleotides, non-nucleotides, linker molecules, or conjugate molecules as described herein.

By "asymmetric duplex" as used herein is meant a siNA molecule having two separate strands comprising a sense region and an antisense region, wherein the sense region comprises fewer nucleotides than the antisense region to the extent that the sense region has enough complementary nucleotides to base pair with the antisense region and form a duplex. For example, an asymmetric duplex siNA molecule of the invention can comprise an antisense region having length sufficient to mediate RNAi in a cell or in vitro system (e.g. about 15 to about 30, or about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30 nucleotides) and a sense region having about 3 to about 25 (e.g., about 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, or 25) nucleotides that are complementary to the antisense region.

By "modulate" is meant that the expression of the gene, or level of RNA molecule or equivalent RNA molecules encoding one or more proteins or protein subunits, or activity of one or more proteins or protein subunits is up regulated or down regulated, such that expression, level, or activity is greater than or less than that observed in the absence of the modulator. For example, the term "modulate" can mean "inhibit," but the use of the word "modulate" is not limited to this definition.

By "inhibit", "down-regulate", or "reduce", it is meant that the expression of the gene, or level of RNA molecules or equivalent RNA molecules encoding one or more proteins or protein subunits, or activity of one or more proteins or protein subunits, is reduced below that observed in the absence of the nucleic acid molecules (e.g., siNA) of the invention. In one embodiment, inhibition, down-regulation or reduction with an siNA molecule is below that level observed in the presence of an inactive or attenuated

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molecule. In another embodiment, inhibition, down-regulation, or reduction with siNA molecules is below that level observed in the presence of, for example, an siNA molecule with scrambled sequence or with mismatches. In another embodiment, inhibition, down-regulation, or reduction of gene expression with a nucleic acid molecule of the instant invention is greater in the presence of the nucleic acid molecule than in its absence. In one embodiment, inhibition, down regulation, or reduction of gene expression is associated with post transcriptional silencing, such as RNAi mediated cleavage of a target nucleic acid molecule (e.g. RNA) or inhibition of translation. In one embodiment, inhibition, down regulation, or reduction of gene expression is associated with pretranscriptional silencing.

By "gene", or "target gene", is meant a nucleic acid that encodes an RNA, for example, nucleic acid sequences including, but not limited to, structural genes encoding a polypeptide. A gene or target gene can also encode a functional RNA (fRNA) or noncoding RNA (ncRNA), such as small temporal RNA (stRNA), micro RNA (miRNA), small nuclear RNA (snRNA), short interfering RNA (siRNA), small nucleolar RNA (snRNA), ribosomal RNA (rRNA), transfer RNA (tRNA) and precursor RNAs thereof. Such non-coding RNAs can serve as target nucleic acid molecules for siNA mediated RNA interference in modulating the activity of fRNA or ncRNA involved in functional or regulatory cellular processes. Abberant fRNA or ncRNA activity leading to disease can therefore be modulated by siNA molecules of the invention. siNA molecules targeting fRNA and ncRNA can also be used to manipulate or alter the genotype or phenotype of a subject, organism or cell, by intervening in cellular processes such as genetic imprinting, transcription, translation, or nucleic acid processing (e.g., transamination, methylation etc.). The target gene can be a gene derived from a cell, an endogenous gene, a transgene, or exogenous genes such as genes of a pathogen, for example a virus, which is present in the cell after infection thereof. The cell containing the target gene can be derived from or contained in any organism, for example a plant, animal, protozoan, virus, bacterium, or fungus. Non-limiting examples of plants include Non-limiting examples of animals include monocots, dicots, or gymnosperms. vertebrates or invertebrates. Non-limiting examples of fungi include molds or yeasts. For a review, see for example Snyder and Gerstein, 2003, Science, 300, 258-260.

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By "non-canonical base pair" is meant any non-Watson Crick base pair, such as mismatches and/or wobble base pairs, including flipped mismatches, single hydrogen bond mismatches, trans-type mismatches, triple base interactions, and quadruple base interactions. Non-limiting examples of such non-canonical base pairs include, but are not limited to, AC reverse Hoogsteen, AC wobble, AU reverse Hoogsteen, GU wobble, AA N7 amino, CC 2-carbonyl-amino(H1)-N3-amino(H2), GA sheared, UC 4-carbonylamino, UU imino-carbonyl, AC reverse wobble, AU Hoogsteen, AU reverse Watson Crick, CG reverse Watson Crick, GC N3-amino-amino N3, AA N1-amino symmetric, AA N7-amino symmetric, GA N7-N1 amino-carbonyl, GA+ carbonyl-amino N7-N1, GG N1-carbonyl symmetric, GG N3-amino symmetric, CC carbonyl-amino symmetric, CC N3-amino symmetric, UU 2-carbonyl-imino symmetric, UU 4-carbonyl-imino symmetric, AA amino-N3, AA N1-amino, AC amino 2-carbonyl, AC N3-amino, AC N7-amino, AU amino-4-carbonyl, AU N1-imino, AU N3-imino, AU N7-imino, CC carbonyl-amino, GA amino-N1, GA amino-N7, GA carbonyl-amino, GA N3-amino, GC amino-N3, GC carbonyl-amino, GC N3-amino, GC N7-amino, GG amino-N7, GG carbonyl-imino, GG N7-amino, GU amino-2-carbonyl, GU carbonyl-imino, GU imino-2-carbonyl, GU N7-imino, psiU imino-2-carbonyl, UC 4-carbonyl-amino, UC iminocarbonyl, UU imino-4-carbonyl, AC C2-H-N3, GA carbonyl-C2-H, UU imino-4carbonyl 2 carbonyl-C5-H, AC amino(A) N3(C)-carbonyl, GC imino amino-carbonyl, Gpsi imino-2-carbonyl amino-2- carbonyl, and GU imino amino-2-carbonyl base pairs.

By "target" as used herein is meant, any target protein, peptide, or polypeptide, such as encoded by Genbank Accession Nos. shown in **Table I**. The term "target" also refers to nucleic acid sequences encoding any protein, peptide, or polypeptide (e.g., DNA and RNA). The term "target" is also meant to include other target encoding sequences, such as other isoforms, mutations, splice variants, and polymorphisms associated with a given target.

By "homologous sequence" is meant, a nucleotide sequence that is shared by one or more polynucleotide sequences, such as genes, gene transcripts and/or non-coding polynucleotides. For example, a homologous sequence can be a nucleotide sequence that is shared by two or more genes encoding related but different proteins, such as different members of a gene family, different protein epitopes, different protein isoforms or

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completely divergent genes, such as a cytokine and its corresponding receptors. A homologous sequence can be a nucleotide sequence that is shared by two or more non-coding polynucleotides, such as noncoding DNA or RNA, regulatory sequences, introns, and sites of transcriptional control or regulation. Homologous sequences can also include conserved sequence regions shared by more than one polynucleotide sequence. Homology does not need to be perfect homology (e.g., 100%), as partially homologous sequences are also contemplated by the instant invention (e.g., 99%, 98%, 97%, 96%, 95%, 94%, 93%, 92%, 91%, 90%, 89%, 88%, 87%, 86%, 85%, 84%, 83%, 82%, 81%, 80% etc.).

By "conserved sequence region" is meant, a nucleotide sequence of one or more regions in a polynucleotide does not vary significantly between generations or from one biological system, subject, or organism to another biological system, subject, or organism. The polynucleotide can include both coding and non-coding DNA and RNA.

By "sense region" is meant a nucleotide sequence of a siNA molecule having complementarity to an antisense region of the siNA molecule. In addition, the sense region of a siNA molecule can comprise a nucleic acid sequence having homology with a target nucleic acid sequence.

By "antisense region" is meant a nucleotide sequence of a siNA molecule having complementarity to a target nucleic acid sequence. In addition, the antisense region of a siNA molecule can optionally comprise a nucleic acid sequence having complementarity to a sense region of the siNA molecule.

By "target nucleic acid" or "target polynucleotide" is meant any nucleic acid sequence whose expression or activity is to be modulated. The target nucleic acid can be DNA or RNA.

By "complementarity" is meant that a nucleic acid can form hydrogen bond(s) with another nucleic acid sequence by either traditional Watson-Crick or other non-traditional types. In reference to the nucleic molecules of the present invention, the binding free energy for a nucleic acid molecule with its complementary sequence is sufficient to allow the relevant function of the nucleic acid to proceed, e.g., RNAi activity. Determination of binding free energies for nucleic acid molecules is well known in the

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art (see, e.g., Turner et al., 1987, CSH Symp. Quant. Biol. LII pp.123-133; Frier et al., 1986, Proc. Nat. Acad. Sci. USA 83:9373-9377; Turner et al., 1987, J. Am. Chem. Soc. 109:3783-3785). A percent complementarity indicates the percentage of contiguous residues in a nucleic acid molecule that can form hydrogen bonds (e.g., Watson-Crick base pairing) with a second nucleic acid sequence (e.g., 5, 6, 7, 8, 9, or 10 nucleotides out of a total of 10 nucleotides in the first oligonucleotide being based paired to a second nucleic acid sequence having 10 nucleotides represents 50%, 60%, 70%, 80%, 90%, and 100% complementary respectively). "Perfectly complementary" means that all the contiguous residues of a nucleic acid sequence will hydrogen bond with the same number of contiguous residues in a second nucleic acid sequence. In one embodiment, a siNA molecule of the invention comprises about 15 to about 30 or more (e.g., about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30 or more) nucleotides that are complementary to one or more target nucleic acid molecules or a portion thereof.

In one embodiment, siNA molecules of the invention that down regulate or reduce target gene expression are used for preventing or treating diseases, traits, disorders, and/or conditions in a subject or organism.

By "proliferative disease" or "cancer" as used herein is meant, any disease, condition, trait, genotype or phenotype characterized by unregulated cell growth or replication as is known in the art; including AIDS related cancers such as Kaposi's sarcoma; breast cancers; bone cancers such as Osteosarcoma, Chondrosarcomas, Ewing's sarcoma, Fibrosarcomas, Giant cell tumors, Adamantinomas, and Chordomas; Brain as Meningiomas, Glioblastomas, Lower-Grade Astrocytomas, such Oligodendrocytomas, Pituitary Tumors, Schwannomas, and Metastatic brain cancers; cancers of the head and neck including various lymphomas such as mantle cell lymphoma, non-Hodgkins lymphoma, adenoma, squamous cell carcinoma, laryngeal carcinoma, gallbladder and bile duct cancers, cancers of the retina such as retinoblastoma, cancers of the esophagus, gastric cancers, multiple myeloma, ovarian cancer, uterine cancer, thyroid cancer, testicular cancer, endometrial cancer, melanoma, colorectal cancer, lung cancer, bladder cancer, prostate cancer, lung cancer (including non-small cell lung carcinoma), pancreatic cancer, sarcomas, Wilms' tumor, cervical cancer, head and neck cancer, skin cancers, nasopharyngeal carcinoma, liposarcoma,

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epithelial carcinoma, renal cell carcinoma, gallbladder adeno carcinoma, parotid adenocarcinoma, endometrial sarcoma, multidrug resistant cancers, and leukemias such as acute myelogenous leukemia (AML), chronic myelogenous leukemia (CML), acute lymphocytic leukemia (ALL), and chronic lymphocytic leukemia,; and proliferative diseases and conditions, such as neovascularization associated with tumor angiogenesis, macular degeneration (e.g., wet/dry AMD), corneal neovascularization, diabetic retinopathy, neovascular glaucoma, myopic degeneration and other proliferative diseases and conditions such as restenosis and polycystic kidney disease, and any other cancer or proliferative disease, condition, trait, genotype or phenotype that can respond to the modulation of disease related gene expression in a cell or tissue, alone or in combination with other therapies.

By "inflammatory disease" or "inflammatory condition" as used herein is meant any disease, condition, trait, genotype or phenotype characterized by an inflammatory or allergic process as is known in the art, such as inflammation, acute inflammation, chronic inflammation, respiratory disease, atherosclerosis, restenosis, asthma, allergic rhinitis, atopic dermatitis, septic shock, rheumatoid arthritis, inflammatory bowl disease, inflammotory pelvic disease, pain, ocular inflammatory disease, celiac disease, Leigh Syndrome, Glycerol Kinase Deficiency, Familial eosinophilia (FE), autosomal recessive spastic ataxia, laryngeal inflammatory disease; Tuberculosis, Chronic cholecystitis, Bronchiectasis, Silicosis and other pneumoconioses, and any other inflammatory disease, condition, trait, genotype or phenotype that can respond to the modulation of disease related gene expression in a cell or tissue, alone or in combination with other therapies.

By "autoimmune disease" or "autoimmune condition" as used herein is meant, any disease, condition, trait, genotype or phenotype characterized by autoimmunity as is known in the art, such as multiple sclerosis, diabetes mellitus, lupus, celiac disease, Crohn's disease, ulcerative colitis, Guillain-Barre syndrome, scleroderms, Goodpasture's syndrome, Wegener's granulomatosis, autoimmune epilepsy, Rasmussen's encephalitis, Primary biliary sclerosis, Sclerosing cholangitis, Autoimmune hepatitis, Addison's disease, Hashimoto's thyroiditis, Fibromyalgia, Menier's syndrome; transplantation rejection (e.g., prevention of allograft rejection) pernicious anemia, rheumatoid arthritis, systemic lupus erythematosus, dermatomyositis, Sjogren's syndrome, lupus

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erythematosus, multiple sclerosis, myasthenia gravis, Reiter's syndrome, Grave's disease, and any other autoimmune disease, condition, trait, genotype or phenotype that can respond to the modulation of disease related gene expression in a cell or tissue, alone or in combination with other therapies.

By "infectious disease" is meant any disease, condition, trait, genotype or phenotype associated with an infectious agent, such as a virus, bacteria, fungus, prion, or parasite. Non-limiting examples of various viral genes that can be targeted using siNA molecules of the invention include Hepatitis C Virus (HCV, for example Genbank Accession Nos: D11168, D50483.1, L38318 and S82227), Hepatitis B Virus (HBV, for example GenBank Accession No. AF100308.1), Human Immunodeficiency Virus type 1 (HIV-1, for example GenBank Accession No. U51188), Human Immunodeficiency Virus type 2 (HIV-2, for example GenBank Accession No. X60667), West Nile Virus (WNV for example GenBank accession No. NC 001563), cytomegalovirus (CMV for example GenBank Accession No. NC_001347), respiratory syncytial virus (RSV for example GenBank Accession No. NC_001781), influenza virus (for example GenBank Accession No. AF037412, rhinovirus (for example, GenBank accession numbers: D00239, X02316, X01087, L24917, M16248, K02121, X01087), papillomavirus (for example GenBank Accession No. NC_001353), Herpes Simplex Virus (HSV for example GenBank Accession No. NC_001345), and other viruses such as HTLV (for example GenBank Accession No. AJ430458). Due to the high sequence variability of many viral genomes, selection of siNA molecules for broad therapeutic applications would likely involve the conserved regions of the viral genome. Nonlimiting examples of conserved regions of the viral genomes include but are not limited to 5'-Non Coding Regions (NCR), 3'- Non Coding Regions (NCR) and/or internal ribosome entry sites (IRES), siNA molecules designed against conserved regions of various viral genomes will enable efficient inhibition of viral replication in diverse patient populations and may ensure the effectiveness of the siNA molecules against viral quasi species which evolve due to mutations in the non-conserved regions of the viral genome. Non-limiting examples of bacterial infections include Actinomycosis, Anthrax, Aspergillosis, Bacteremia, Bacterial Infections and Mycoses, Bartonella Infections, Botulism, Brucellosis, Burkholderia Infections, Campylobacter Infections, Candidiasis, Cat-Scratch Disease, Chlamydia Infections, Cholera, Clostridium Infections, Coccidioidomycosis,

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Cross Infection, Cryptococcosis, Dermatomycoses, Dermatomycoses, Diphtheria, Ehrlichiosis, Escherichia coli Infections, Fasciitis, Necrotizing, Fusobacterium Infections, Gas Gangrene, Gram-Negative Bacterial Infections, Gram-Positive Bacterial Infections, Histoplasmosis, Impetigo, Klebsiella Infections, Legionellosis, Leprosy, Leptospirosis, Listeria Infections, Lyme Disease, Maduromycosis, Melioidosis, Mycobacterium Infections, Mycoplasma Infections, Mycoses, Nocardia Infections, Onychomycosis, Ornithosis, Plague, Pneumococcal Infections, Pseudomonas Infections, O Fever, Rat-Bite Fever, Relapsing Fever, Rheumatic Fever, Rickettsia Infections, Rocky Mountain Spotted Fever, Salmonella Infections, Scarlet Fever, Scrub Typhus, Sepsis, Sexually Transmitted Diseases - Bacterial, Bacterial Skin Diseases, Staphylococcal Infections, Streptococcal Infections, Tetanus, Tick-Borne Diseases, Tuberculosis, Tularemia, Typhoid Fever, Typhus, Epidemic Louse-Borne, Vibrio Infections, Yaws, Yersinia Infections, Zoonoses, and Zygomycosis. Non-limiting Aspergillosis, examples of fungal infections include Blastomycosis. Coccidioidomycosis, Cryptococcosis, Fungal Infections of Fingernails and Toenails, Fungal Sinusitis, Histoplasmosis, Histoplasmosis, Mucormycosis, Nail Fungal Infection, Paracoccidioidomycosis, Sporotrichosis, Valley Fever (Coccidioidomycosis), and Mold Allergy.

By "neurologic disease" or "neurological disease" is meant any disease, disorder, or condition affecting the central or peripheral nervous system, inlcuding ADHD, AIDS - Neurological Complications, Absence of the Septum Pellucidum, Acquired Epileptiform Aphasia, Acute Disseminated Encephalomyelitis, Adrenoleukodystrophy, Agenesis of the Corpus Callosum, Agnosia, Aicardi Syndrome, Alexander Disease, Alpers' Disease, Alternating Hemiplegia, Alzheimer's Disease, Amyotrophic Lateral Sclerosis, Anencephaly, Aneurysm, Angelman Syndrome, Angiomatosis, Anoxia, Aphasia, Apraxia, Arachnoid Cysts, Arachnoiditis, Arnold-Chiari Malformation, Arteriovenous Malformation, Aspartame, Asperger Syndrome, Ataxia Telangiectasia, Ataxia, Attention Deficit-Hyperactivity Disorder, Autism, Autonomic Dysfunction, Back Pain, Barth Syndrome, Batten Disease, Behcet's Disease, Bell's Palsy, Benign Essential Blepharospasm, Benign Focal Amyotrophy, Benign Intracranial Hypertension, Bernhardt-Roth Syndrome, Binswanger's Disease, Blepharospasm, Bloch-Sulzberger Syndrome, Brachial Plexus Birth Injuries, Brachial Plexus Injuries, Bradbury-Eggleston

Syndrome, Brain Aneurysm, Brain Injury, Brain and Spinal Tumors, Brown-Sequard Syndrome, Bulbospinal Muscular Atrophy, Canavan Disease, Carpal Tunnel Syndrome, Causalgia, Cavernomas, Cavernous Angioma, Cavernous Malformation, Central Cervical Cord Syndrome, Central Cord Syndrome, Central Pain Syndrome, Cephalic Disorders, Cerebellar Degeneration, Cerebellar Hypoplasia, Cerebral Aneurysm, Cerebral Arteriosclerosis, Cerebral Atrophy, Cerebral Beriberi, Cerebral Gigantism, Cerebral Hypoxia, Cerebral Palsy, Cerebro-Oculo-Facio-Skeletal Syndrome, Charcot-Marie-Tooth Disorder, Chiari Malformation, Chorea, Choreoacanthocytosis, Chronic Inflammatory Demyelinating Polyneuropathy (CIDP), Chronic Orthostatic Intolerance, 10 Chronic Pain, Cockayne Syndrome Type II, Coffin Lowry Syndrome, Coma, including Persistent Vegetative State, Complex Regional Pain Syndrome, Congenital Facial Diplegia, Congenital Myasthenia, Congenital Myopathy, Congenital Vascular Cavernous Malformations, Corticobasal Degeneration, Cranial Arteritis, Craniosynostosis, Creutzfeldt-Jakob Disease, Cumulative Trauma Disorders, Cushing's Syndrome. 15 Cytomegalic Inclusion Body Disease (CIBD), Cytomegalovirus Infection, Dancing Eyes-Dancing Feet Syndrome, Dandy-Walker Syndrome, Dawson Disease, De Morsier's Syndrome, Dejerine-Klumpke Palsy, Dementia - Multi-Infarct, Dementia - Subcortical. Dementia With Lewy Bodies, Dermatomyositis, Developmental Dyspraxia, Devic's Syndrome, Diabetic Neuropathy, Diffuse Sclerosis, Dravet's Syndrome, Dysautonomia, 20 Dysgraphia, Dyslexia, Dysphagia, Dyspraxia, Dystonias, Early Infantile Epileptic Encephalopathy, Empty Sella Syndrome, Encephalitis Lethargica, Encephalitis and Meningitis, Encephaloceles, Encephalopathy, Encephalotrigeminal Angiomatosis, Epilepsy, Erb's Palsy, Erb-Duchenne and Dejerine-Klumpke Palsies, Fabry's Disease, Fahr's Syndrome, Fainting, Familial Dysautonomia, Familial Hemangioma, Familial 25 Idiopathic Basal Ganglia Calcification, Familial Spastic Paralysis, Febrile Seizures (e.g., GEFS and GEFS plus), Fisher Syndrome, Floppy Infant Syndrome, Friedreich's Ataxia, Gaucher's Disease, Gerstmann's Syndrome, Gerstmann-Straussler-Scheinker Disease, Giant Cell Arteritis, Giant Cell Inclusion Disease, Globoid Cell Leukodystrophy, Glossopharyngeal Neuralgia, Guillain-Barre Syndrome, HTLV-1 Associated 30 Myelopathy, Hallervorden-Spatz Disease, Head Injury, Headache, Hemicrania Continua, Hemifacial Spasm, Hemiplegia Alterans, Hereditary Neuropathies, Hereditary Spastic Paraplegia, Heredopathia Atactica Polyneuritiformis, Herpes Zoster Oticus, Herpes

Huntington's Disease, Zoster, Hirayama Syndrome. Holoprosencephaly, Hydranencephaly, Hydrocephalus - Normal Pressure, Hydrocephalus, Hydromyelia, Hypercortisolism, Hypersomnia, Hypertonia, Hypotonia, Hypoxia, Immune-Mediated Encephalomyelitis, Inclusion Body Myositis, Incontinentia Pigmenti, Infantile Hypotonia, Infantile Phytanic Acid Storage Disease, Infantile Refsum Disease, Infantile 5 Spasms, Inflammatory Myopathy, Intestinal Lipodystrophy, Intracranial Cysts, Intracranial Hypertension, Isaac's Syndrome, Joubert Syndrome, Kearns-Sayre Syndrome, Kennedy's Disease, Kinsbourne syndrome, Kleine-Levin syndrome, Klippel Feil Syndrome, Klippel-Trenaunay Syndrome (KTS), Klüver-Bucy Syndrome, Korsakoff's Amnesic Syndrome, Krabbe Disease, Kugelberg-Welander Disease, Kuru, 10 Lambert-Eaton Myasthenic Syndrome, Landau-Kleffner Syndrome, Lateral Femoral Cutaneous Nerve Entrapment, Lateral Medullary Syndrome, Learning Disabilities, Leigh's Disease, Lennox-Gastaut Syndrome, Lesch-Nyhan Syndrome, Leukodystrophy, Levine-Critchley Syndrome, Lewy Body Dementia, Lissencephaly, Locked-In Syndrome, Lou Gehrig's Disease, Lupus - Neurological Sequelae, Lyme Disease -15 Machado-Joseph Disease, Macrencephaly, Neurological Complications, Megalencephaly, Melkersson-Rosenthal Syndrome, Meningitis, Menkes Disease, Meralgia Paresthetica, Metachromatic Leukodystrophy, Microcephaly, Migraine, Miller Fisher Syndrome, Mini-Strokes, Mitochondrial Myopathies, Mobius Syndrome, Monomelic Amyotrophy, Motor Neuron Diseases, Moyamoya Disease, Mucolipidoses, 20 Mucopolysaccharidoses, Multi-Infarct Dementia, Multifocal Motor Neuropathy, Multiple Sclerosis, Multiple System Atrophy with Orthostatic Hypotension, Multiple System Atrophy, Muscular Dystrophy, Myasthenia - Congenital, Myasthenia Gravis, Myelinoclastic Diffuse Sclerosis, Myoclonic Encephalopathy of Infants, Myoclonus, Myopathy - Congenital, Myopathy - Thyrotoxic, Myopathy, Myotonia Congenita, 25 Myotonia, Narcolepsy, Neuroacanthocytosis, Neurodegeneration with Brain Iron Accumulation, Neurofibromatosis, Neuroleptic Malignant Syndrome, Neurological Complications of AIDS, Neurological Manifestations of Pompe Disease, Neuromyelitis Optica, Neuromyotonia, Neuronal Ceroid Lipofuscinosis, Neuronal Migration Disorders, Neuropathy - Hereditary, Neurosarcoidosis, Neurotoxicity, Nevus Cavernosus, Niemann-30 Pick Disease, O'Sullivan-McLeod Syndrome, Occipital Neuralgia, Occult Spinal Dysraphism Sequence, Ohtahara Syndrome, Olivopontocerebellar Atrophy, Opsoclonus

Myoclonus, Orthostatic Hypotension, Overuse Syndrome, Pain - Chronic, Paraneoplastic Syndromes, Paresthesia, Parkinson's Disease, Parmyotonia Congenita, Paroxysmal Choreoathetosis, Paroxysmal Hemicrania, Parry-Romberg, Pelizaeus-Merzbacher Disease, Pena Shokeir II Syndrome, Perineural Cysts, Periodic Paralyses, Peripheral Neuropathy, Periventricular Leukomalacia, Persistent Vegetative State, Pervasive 5 Developmental Disorders, Phytanic Acid Storage Disease, Pick's Disease, Piriformis Syndrome, Pituitary Tumors, Polymyositis, Pompe Disease, Porencephaly, Post-Polio Postherpetic Neuralgia, Postinfectious Encephalomyelitis, Postural Hypotension, Postural Orthostatic Tachycardia Syndrome, Postural Tachycardia Syndrome, Primary Lateral Sclerosis, Prion Diseases, Progressive Hemifacial Atrophy, 10 Progressive Locomotor Ataxia, Progressive Multifocal Leukoencephalopathy, Progressive Sclerosing Poliodystrophy, Progressive Supranuclear Palsy, Pseudotumor Cerebri, Pyridoxine Dependent and Pyridoxine Responsive Siezure Disorders, Ramsay Hunt Syndrome Type I, Ramsay Hunt Syndrome Type II, Rasmussen's Encephalitis and other autoimmune epilepsies, Reflex Sympathetic Dystrophy Syndrome, Refsum Disease 15 - Infantile, Refsum Disease, Repetitive Motion Disorders, Repetitive Stress Injuries, Restless Legs Syndrome, Retrovirus-Associated Myelopathy, Rett Syndrome, Reye's Syndrome, Riley-Day Syndrome, SUNCT Headache, Sacral Nerve Root Cysts, Saint Vitus Dance, Salivary Gland Disease, Sandhoff Disease, Schilder's Disease, Schizencephaly, Seizure Disorders, Septo-Optic Dysplasia, Severe Myoclonic Epilepsy 20 of Infancy (SMEI), Shaken Baby Syndrome, Shingles, Shy-Drager Syndrome, Sjogren's Syndrome, Sleep Apnea, Sleeping Sickness, Soto's Syndrome, Spasticity, Spina Bifida, Spinal Cord Infarction, Spinal Cord Injury, Spinal Cord Tumors, Spinal Muscular Atrophy, Spinocerebellar Atrophy, Steele-Richardson-Olszewski Syndrome, Stiff-Person Syndrome, Striatonigral Degeneration, Stroke, Sturge-Weber Syndrome, Subacute 25 Sclerosing Panencephalitis, Subcortical Arteriosclerotic Encephalopathy, Swallowing Disorders, Sydenham Chorea, Syncope, Syphilitic Spinal Sclerosis, Syringohydromyelia, Syringomyelia, Systemic Lupus Erythematosus, Tabes Dorsalis, Tardive Dyskinesia, Tarlov Cysts, Tay-Sachs Disease, Temporal Arteritis, Tethered Spinal Cord Syndrome, Thomsen Disease, Thoracic Outlet Syndrome, Thyrotoxic Myopathy, Tic Douloureux, 30 Todd's Paralysis, Tourette Syndrome, Transient Ischemic Attack, Transmissible Spongiform Encephalopathies, Transverse Myelitis, Traumatic Brain Injury, Tremor,

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Trigeminal Neuralgia, Tropical Spastic Paraparesis, Tuberous Sclerosis, Vascular Erectile Tumor, Vasculitis including Temporal Arteritis, Von Economo's Disease, Von Hippel-Lindau disease (VHL), Von Recklinghausen's Disease, Wallenberg's Syndrome, Werdnig-Hoffman Disease, Wernicke-Korsakoff Syndrome, West Syndrome, Whipple's Disease, Williams Syndrome, Wilson's Disease, X-Linked Spinal and Bulbar Muscular Atrophy, and Zellweger Syndrome.

By "respiratory disease" is meant, any disease or condition affecting the respiratory tract, such as asthma, chronic obstructive pulmonary disease or "COPD", allergic rhinitis, sinusitis, pulmonary vasoconstriction, inflammation, allergies, impeded respiration, respiratory distress syndrome, cystic fibrosis, pulmonary hypertension, pulmonary vasoconstriction, emphysema, and any other respiratory disease, condition, trait, genotype or phenotype that can respond to the modulation of disease related gene expression in a cell or tissue, alone or in combination with other therapies.

By "cardiovascular disease" is meant and disease or condition affecting the heart and vasculature, inleuding but not limited to, coronary heart disease (CHD), cerebrovascular disease (CVD), aortic stenosis, peripheral vascular disease, atherosclerosis, arteriosclerosis, myocardial infarction (heart attack), cerebrovascular diseases (stroke), transient ischaemic attacks (TIA), angina (stable and unstable), atrial fibrillation, arrhythmia, vavular disease, congestive heart failure, hypercholoesterolemia, type I hyperlipoproteinemia, type III hyperlipoproteinemia, type IV hyperlipoproteinemia, secondary hypertrigliceridemia, and familial lecithin cholesterol acyltransferase deficiency.

By "ocular disease" as used herein is meant, any disease, condition, trait, genotype or phenotype of the eye and related structures as is known in the art, such as Cystoid Macular Edema, Asteroid Hyalosis, Pathological Myopia and Posterior Staphyloma, Toxocariasis (Ocular Larva Migrans), Retinal Vein Occlusion, Posterior Vitreous Detachment, Tractional Retinal Tears, Epiretinal Membrane, Diabetic Retinopathy, Lattice Degeneration, Retinal Vein Occlusion, Retinal Artery Occlusion, Macular Degeneration (e.g., age related macular degeneration such as wet AMD or dry AMD), Toxoplasmosis, Choroidal Melanoma, Acquired Retinoschisis, Hollenhorst Plaque, Idiopathic Central Serous Chorioretinopathy, Macular Hole, Presumed Ocular

Histoplasmosis Syndrome, Retinal Macroaneursym, Retinitis Pigmentosa, Retinal Detachment, Hypertensive Retinopathy, Retinal Pigment Epithelium (RPE) Detachment, Papillophlebitis, Ocular Ischemic Syndrome, Coats' Disease, Leber's Miliary Aneurysm, Conjunctival Neoplasms, Allergic Conjunctivitis, Vernal Conjunctivitis, Acute Bacterial Keratoconjunctivitis, Conjunctivitis &Vernal Allergic Conjunctivitis, Conjunctivitis, Bacterial Conjunctivitis, Chlamydial & Gonococcal Conjunctivitis, Conjunctival Laceration, Episcleritis, Scleritis, Pingueculitis, Pterygium, Superior Limbic Keratoconjunctivitis (SLK of Theodore), Toxic Conjunctivitis, Conjunctivitis with Pseudomembrane, Giant Papillary Conjunctivitis, Terrien's Marginal Degeneration, Acanthamoeba Keratitis, Fungal Keratitis, Filamentary Keratitis, Bacterial Keratitis, 10 Keratitis Sicca/Dry Eye Syndrome, Bacterial Keratitis, Herpes Simplex Keratitis, Sterile Corneal Infiltrates, Phlyctenulosis, Corneal Abrasion & Recurrent Corneal Erosion, Corneal Foreign Body, Chemical Burs, Epithelial Basement Membrane Dystrophy (EBMD), Thygeson's Superficial Punctate Keratopathy, Corneal Laceration, Salzmann's Nodular Degeneration, Fuchs' Endothelial Dystrophy, Crystalline Lens Subluxation, 15 Ciliary-Block Glaucoma, Primary Open-Angle Glaucoma, Pigment Dispersion Syndrome and Pigmentary Glaucoma, Pseudoexfoliation Syndrom and Pseudoexfoliative Glaucoma, Anterior Uveitis, Primary Open Angle Glaucoma, Uveitic Glaucoma & Glaucomatocyclitic Crisis, Pigment Dispersion Syndrome & Pigmentary Glaucoma, Acute Angle Closure Glaucoma, Anterior Uveitis, Hyphema, Angle Recession 20 Glaucoma, Lens Induced Glaucoma, Pseudoexfoliation Syndrome and Pseudoexfoliative Glaucoma, Axenfeld-Rieger Syndrome, Neovascular Glaucoma, Pars Planitis, Choroidal Rupture, Duane's Retraction Syndrome, Toxic/Nutritional Optic Neuropathy, Aberrant Regeneration of Cranial Nerve III, Intracranial Mass Lesions, Carotid-Cavernous Sinus Fistula, Anterior Ischemic Optic Neuropathy, Optic Disc Edema & Papilledema, Cranial 25 Nerve III Palsy, Cranial Nerve IV Palsy, Cranial Nerve VI Palsy, Cranial Nerve VII (Facial Nerve) Palsy, Horner's Syndrome, Internuclear Ophthalmoplegia, Optic Nerve Head Hypoplasia, Optic Pit, Tonic Pupil, Optic Nerve Head Drusen, Demyelinating Optic Neuropathy (Optic Neuritis, Retrobulbar Optic Neuritis), Amaurosis Fugax and Transient Ischemic Attack, Pseudotumor Cerebri, Pituitary Adenoma, Molluscum 30 Contagiosum, Canaliculitis, Verruca and Papilloma, Pediculosis and Pthiriasis, Blepharitis, Hordeolum, Preseptal Cellulitis, Chalazion, Basal Cell Carcinoma, Herpes

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Zoster Ophthalmicus, Pediculosis & Phthiriasis, Blow-out Fracture, Chronic Epiphora, Dacryocystitis, Herpes Simplex Blepharitis, Orbital Cellulitis, Senile Entropion, and Squamous Cell Carcinoma.

By "metabolic disease" is meant any disease or condition affecting metabolic pathways as in known in the art. Metabolic disease can result in an abnormal metabolic process, either congenital due to inherited enzyme abnormality (inborn errors of metabolism) or acquired due to disease of an endocrine organ or failure of a metabolically important organ such as the liver. In one embodiment, metabolic disease includes obesity, insulin resistance, and diabetes (e.g., type I and/or type II diabetes).

In one embodiment of the present invention, each sequence of a siNA molecule of the invention is independently about 15 to about 30 nucleotides in length, in specific embodiments about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30 nucleotides in length. In another embodiment, the siNA duplexes of the invention independently comprise about 15 to about 30 base pairs (e.g., about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30). In another embodiment, one or more strands of the siNA molecule of the invention independently comprises about 15 to about 30 nucleotides (e.g., about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, or 30) that are complementary to a target nucleic acid molecule. In yet another embodiment, siNA molecules of the invention comprising hairpin or circular structures are about 35 to about 55 (e.g., about 35, 40, 45, 50 or 55) nucleotides in length, or about 38 to about 44 (e.g., about 38, 39, 40, 41, 42, 43, or 44) nucleotides in length and comprising about 15 to about 25 (e.g., about 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, or 25) base pairs. Exemplary siNA molecules of the invention are shown in Figures 4-5.

As used herein "cell" is used in its usual biological sense, and does not refer to an entire multicellular organism, e.g., specifically does not refer to a human. The cell can be present in an organism, e.g., birds, plants and mammals such as humans, cows, sheep, apes, monkeys, swine, dogs, and cats. The cell can be prokaryotic (e.g., bacterial cell) or eukaryotic (e.g., mammalian or plant cell). The cell can be of somatic or germ line origin, totipotent or pluripotent, dividing or non-dividing. The cell can also be derived from or can comprise a gamete or embryo, a stem cell, or a fully differentiated cell.

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The siNA molecules of the invention are added directly, or can be complexed with cationic lipids, packaged within liposomes, or otherwise delivered to target cells or tissues. The nucleic acid or nucleic acid complexes can be locally administered to relevant tissues *ex vivo*, or *in vivo* through direct dermal application, transdermal application, or injection, with or without their incorporation in biopolymers.

In another aspect, the invention provides mammalian cells containing one or more siNA molecules of this invention. The one or more siNA molecules can independently be targeted to the same or different sites.

By "RNA" is meant a molecule comprising at least one ribonucleotide residue. By "ribonucleotide" is meant a nucleotide with a hydroxyl group at the 2' position of a β -D-ribofuranose moiety. The terms include double-stranded RNA, single-stranded RNA, isolated RNA such as partially purified RNA, essentially pure RNA, synthetic RNA, recombinantly produced RNA, as well as altered RNA that differs from naturally occurring RNA by the addition, deletion, substitution and/or alteration of one or more nucleotides. Such alterations can include addition of non-nucleotide material, such as to the end(s) of the siNA or internally, for example at one or more nucleotides of the RNA. Nucleotides in the RNA molecules of the instant invention can also comprise non-standard nucleotides, such as non-naturally occurring nucleotides or chemically synthesized nucleotides or deoxynucleotides. These altered RNAs can be referred to as analogs or analogs of naturally-occurring RNA.

By "subject" is meant an organism, which is a donor or recipient of explanted cells or the cells themselves. "Subject" also refers to an organism to which the nucleic acid molecules of the invention can be administered. A subject can be a mammal or mammalian cells, including a human or human cells.

The term "phosphorothioate" as used herein refers to an internucleotide linkage having Formula I, wherein Z and/or W comprise a sulfur atom. Hence, the term phosphorothioate refers to both phosphorothioate and phosphorodithioate internucleotide linkages.

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The term "phosphonoacetate" as used herein refers to an internucleotide linkage having Formula I, wherein Z and/or W comprise an acetyl or protected acetyl group.

The term "thiophosphonoacetate" as used herein refers to an internucleotide linkage having Formula I, wherein Z comprises an acetyl or protected acetyl group and W comprises a sulfur atom or alternately W comprises an acetyl or protected acetyl group and Z comprises a sulfur atom.

The term "universal base" as used herein refers to nucleotide base analogs that form base pairs with each of the natural DNA/RNA bases with little discrimination between them. Non-limiting examples of universal bases include C-phenyl, C-naphthyl and other aromatic derivatives, inosine, azole carboxamides, and nitroazole derivatives such as 3-nitropyrrole, 4-nitroindole, 5-nitroindole, and 6-nitroindole as known in the art (see for example Loakes, 2001, *Nucleic Acids Research*, 29, 2437-2447).

The term "acyclic nucleotide" as used herein refers to any nucleotide having an acyclic ribose sugar, for example where any of the ribose carbons (C1, C2, C3, C4, or C5), are independently or in combination absent from the nucleotide.

The nucleic acid molecules of the instant invention, individually, or in combination or in conjunction with other drugs, can be used to for preventing or treating diseases, traits, disorders, and/or conditions described herein or otherwise known in the art, in a subject or organism. For example, the siNA molecules can be administered to a subject or can be administered to other appropriate cells evident to those skilled in the art, individually or in combination with one or more drugs under conditions suitable for the treatment.

In a further embodiment, the siNA molecules can be used in combination with other known treatments to prevent or treat preventing or treating diseases, traits, disorders, and/or conditions described herein or otherwise known in the art, in a subject or organism. For example, the described molecules could be used in combination with one or more known compounds, treatments, or procedures to prevent or treat diseases, traits, disorders, and/or conditions described herein or otherwise known in the art, in a subject or organism.

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In one embodiment, the invention features an expression vector comprising a nucleic acid sequence encoding at least one siNA molecule of the invention, in a manner which allows expression of the siNA molecule. For example, the vector can contain sequence(s) encoding both strands of a siNA molecule comprising a duplex. The vector can also contain sequence(s) encoding a single nucleic acid molecule that is self-complementary and thus forms a siNA molecule. Non-limiting examples of such expression vectors are described in Paul et al., 2002, Nature Biotechnology, 19, 505; Miyagishi and Taira, 2002, Nature Biotechnology, 19, 497; Lee et al., 2002, Nature Biotechnology, 19, 500; and Novina et al., 2002, Nature Medicine, advance online publication doi:10.1038/nm725.

In another embodiment, the invention features a mammalian cell, for example, a human cell, including an expression vector of the invention.

In yet another embodiment, the expression vector of the invention comprises a sequence for a siNA molecule having complementarity to a RNA molecule referred to by Genbank Accession numbers, for example Genbank Accession Nos. shown in **Table I**.

In one embodiment, an expression vector of the invention comprises a nucleic acid sequence encoding two or more siNA molecules, which can be the same or different.

In another aspect of the invention, siNA molecules that interact with target RNA molecules and down-regulate gene encoding target RNA molecules (for example target RNA molecules referred to by Genbank Accession numbers herein) are expressed from transcription units inserted into DNA or RNA vectors. The recombinant vectors can be DNA plasmids or viral vectors. siNA expressing viral vectors can be constructed based on, but not limited to, adeno-associated virus, retrovirus, adenovirus, or alphavirus. The recombinant vectors capable of expressing the siNA molecules can be delivered as described herein, and persist in target cells. Alternatively, viral vectors can be used that provide for transient expression of siNA molecules. Such vectors can be repeatedly administered as necessary. Once expressed, the siNA molecules bind and down-regulate gene function or expression via RNA interference (RNAi). Delivery of siNA expressing vectors can be systemic, such as by intravenous or intramuscular administration, by administration to target cells ex-planted from a subject followed by reintroduction into

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the subject, or by any other means that would allow for introduction into the desired target cell.

By "vectors" is meant any nucleic acid- and/or viral-based technique used to deliver a desired nucleic acid.

Other features and advantages of the invention will be apparent from the following description of the preferred embodiments thereof, and from the claims.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 shows a non-limiting example of a scheme for the synthesis of siNA molecules. The complementary siNA sequence strands, strand 1 and strand 2, are synthesized in tandem and are connected by a cleavable linkage, such as a nucleotide succinate or abasic succinate, which can be the same or different from the cleavable linker used for solid phase synthesis on a solid support. The synthesis can be either solid phase or solution phase, in the example shown, the synthesis is a solid phase synthesis. The synthesis is performed such that a protecting group, such as a dimethoxytrityl group, remains intact on the terminal nucleotide of the tandem oligonucleotide. Upon cleavage and deprotection of the oligonucleotide, the two siNA strands spontaneously hybridize to form a siNA duplex, which allows the purification of the duplex by utilizing the properties of the terminal protecting group, for example by applying a trityl on purification method wherein only duplexes/oligonucleotides with the terminal protecting group are isolated.

Figure 2 shows a MALDI-TOF mass spectrum of a purified siNA duplex synthesized by a method of the invention. The two peaks shown correspond to the predicted mass of the separate siNA sequence strands. This result demonstrates that the siNA duplex generated from tandem synthesis can be purified as a single entity using a simple trityl-on purification methodology.

Figure 3 shows a non-limiting proposed mechanistic representation of target RNA degradation involved in RNAi. Double-stranded RNA (dsRNA), which is generated by RNA-dependent RNA polymerase (RdRP) from foreign single-stranded RNA, for example viral, transposon, or other exogenous RNA, activates the DICER enzyme that in

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turn generates siNA duplexes. Alternately, synthetic or expressed siNA can be introduced directly into a cell by appropriate means. An active siNA complex forms which recognizes a target RNA, resulting in degradation of the target RNA by the RISC endonuclease complex or in the synthesis of additional RNA by RNA-dependent RNA polymerase (RdRP), which can activate DICER and result in additional siNA molecules, thereby amplifying the RNAi response.

Figure 4A-F shows non-limiting examples of chemically-modified siNA constructs of the present invention. In the figure, N stands for any nucleotide (adenosine, guanosine, cytosine, uridine, or optionally thymidine, for example thymidine can be substituted in the overhanging regions designated by parenthesis (N N). Various modifications are shown for the sense and antisense strands of the siNA constructs.

Figure 4A: The sense strand comprises 21 nucleotides wherein the two terminal 3'-nucleotides are optionally base paired and wherein all nucleotides present are ribonucleotides except for (N N) nucleotides, which can comprise ribonucleotides, deoxynucleotides, universal bases, or other chemical modifications described herein. The antisense strand comprises 21 nucleotides, optionally having a 3'-terminal glyceryl moiety wherein the two terminal 3'-nucleotides are optionally complementary to the target RNA sequence, and wherein all nucleotides present are ribonucleotides except for (N N) nucleotides, which can comprise ribonucleotides, deoxynucleotides, universal bases, or other chemical modifications described herein. A modified internucleotide linkage, such as a phosphorothioate, phosphorodithioate or other modified internucleotide linkage as described herein, shown as "s", optionally connects the (N N) nucleotides in the antisense strand.

Figure 4B: The sense strand comprises 21 nucleotides wherein the two terminal 3'-nucleotides are optionally base paired and wherein all pyrimidine nucleotides that may be present are 2'-deoxy-2'-fluoro modified nucleotides and all purine nucleotides that may be present are 2'-O-methyl modified nucleotides except for (N N) nucleotides, which can comprise ribonucleotides, deoxynucleotides, universal bases, or other chemical modifications described herein. The antisense strand comprises 21 nucleotides, optionally having a 3'-terminal glyceryl moiety and wherein the two terminal 3'-nucleotides are optionally complementary to the target RNA sequence, and wherein all

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pyrimidine nucleotides that may be present are 2'-deoxy-2'-fluoro modified nucleotides and all purine nucleotides that may be present are 2'-O-methyl modified nucleotides except for (N N) nucleotides, which can comprise ribonucleotides, deoxynucleotides, universal bases, or other chemical modifications described herein. A modified internucleotide linkage, such as a phosphorothioate, phosphorodithioate or other modified internucleotide linkage as described herein, shown as "s", optionally connects the (N N) nucleotides in the sense and antisense strand.

Figure 4C: The sense strand comprises 21 nucleotides having 5'- and 3'- terminal cap moieties wherein the two terminal 3'-nucleotides are optionally base paired and wherein all pyrimidine nucleotides that may be present are 2'-O-methyl or 2'-deoxy-2'-fluoro modified nucleotides except for (N N) nucleotides, which can comprise ribonucleotides, deoxynucleotides, universal bases, or other chemical modifications described herein. The antisense strand comprises 21 nucleotides, optionally having a 3'-terminal glyceryl moiety and wherein the two terminal 3'-nucleotides are optionally complementary to the target RNA sequence, and wherein all pyrimidine nucleotides that may be present are 2'-deoxy-2'-fluoro modified nucleotides except for (N N) nucleotides, which can comprise ribonucleotides, deoxynucleotides, universal bases, or other chemical modifications described herein. A modified internucleotide linkage, such as a phosphorothioate, phosphorodithioate or other modified internucleotide linkage as described herein, shown as "s", optionally connects the (N N) nucleotides in the antisense strand.

Figure 4D: The sense strand comprises 21 nucleotides having 5'- and 3'- terminal cap moieties wherein the two terminal 3'-nucleotides are optionally base paired and wherein all pyrimidine nucleotides that may be present are 2'-deoxy-2'-fluoro modified nucleotides except for (N N) nucleotides, which can comprise ribonucleotides, deoxynucleotides, universal bases, or other chemical modifications described herein and wherein and all purine nucleotides that may be present are 2'-deoxy nucleotides. The antisense strand comprises 21 nucleotides, optionally having a 3'-terminal glyceryl moiety and wherein the two terminal 3'-nucleotides are optionally complementary to the target RNA sequence, wherein all pyrimidine nucleotides that may be present are 2'-deoxy-2'-fluoro modified nucleotides and all purine nucleotides that may be present are

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2'-O-methyl modified nucleotides except for (N N) nucleotides, which can comprise ribonucleotides, deoxynucleotides, universal bases, or other chemical modifications described herein. A modified internucleotide linkage, such as a phosphorothioate, phosphorodithioate or other modified internucleotide linkage as described herein, shown as "s", optionally connects the (N N) nucleotides in the antisense strand.

Figure 4E: The sense strand comprises 21 nucleotides having 5'- and 3'- terminal cap moieties wherein the two terminal 3'-nucleotides are optionally base paired and wherein all pyrimidine nucleotides that may be present are 2'-deoxy-2'-fluoro modified nucleotides except for (N N) nucleotides, which can comprise ribonucleotides, deoxynucleotides, universal bases, or other chemical modifications described herein. The antisense strand comprises 21 nucleotides, optionally having a 3'-terminal glyceryl moiety and wherein the two terminal 3'-nucleotides are optionally complementary to the target RNA sequence, and wherein all pyrimidine nucleotides that may be present are 2'-deoxy-2'-fluoro modified nucleotides and all purine nucleotides that may be present are 2'-O-methyl modified nucleotides except for (N N) nucleotides, which can comprise ribonucleotides, deoxynucleotides, universal bases, or other chemical modifications described herein. A modified internucleotide linkage, such as a phosphorothioate, phosphorodithioate or other modified internucleotide linkage as described herein, shown as "s", optionally connects the (N N) nucleotides in the antisense strand.

Figure 4F: The sense strand comprises 21 nucleotides having 5'- and 3'- terminal cap moieties wherein the two terminal 3'-nucleotides are optionally base paired and wherein all pyrimidine nucleotides that may be present are 2'-deoxy-2'-fluoro modified nucleotides except for (N N) nucleotides, which can comprise ribonucleotides, deoxynucleotides, universal bases, or other chemical modifications described herein and wherein and all purine nucleotides that may be present are 2'-deoxy nucleotides. The antisense strand comprises 21 nucleotides, optionally having a 3'-terminal glyceryl moiety and wherein the two terminal 3'-nucleotides are optionally complementary to the target RNA sequence, and having one 3'-terminal phosphorothioate internucleotide linkage and wherein all pyrimidine nucleotides that may be present are 2'-deoxy-2'-fluoro modified nucleotides and all purine nucleotides that may be present are 2'-deoxy nucleotides except for (N N) nucleotides, which can comprise ribonucleotides,

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deoxynucleotides, universal bases, or other chemical modifications described herein. A modified internucleotide linkage, such as a phosphorothioate, phosphorodithioate or other modified internucleotide linkage as described herein, shown as "s", optionally connects the (N N) nucleotides in the antisense strand. The antisense strand of constructs A-F comprise sequence complementary to any target nucleic acid sequence of the invention. Furthermore, when a glyceryl moiety (L) is present at the 3'-end of the antisense strand for any construct shown in Figure 4 A-F, the modified internucleotide linkage is optional.

Figure 5A-F shows non-limiting examples of specific chemically-modified siNA sequences of the invention. A-F applies the chemical modifications described in Figure 4A-F to a target siNA sequence. Such chemical modifications can be applied to any target sequence and/or target polymorphism sequence.

Figure 6 shows non-limiting examples of different siNA constructs of the invention. The examples shown (constructs 1, 2, and 3) have 19 representative base pairs; however, different embodiments of the invention include any number of base pairs described herein. Bracketed regions represent nucleotide overhangs, for example, comprising about 1, 2, 3, or 4 nucleotides in length, preferably about 2 nucleotides. Constructs 1 and 2 can be used independently for RNAi activity. Construct 2 can comprise a polynucleotide or non-nucleotide linker, which can optionally be designed as a biodegradable linker. In one embodiment, the loop structure shown in construct 2 can comprise a biodegradable linker that results in the formation of construct 1 in vivo and/or in vitro. In another example, construct 3 can be used to generate construct 2 under the same principle wherein a linker is used to generate the active siNA construct 2 in vivo and/or in vitro, which can optionally utilize another biodegradable linker to generate the active siNA construct 1 in vivo and/or in vitro. As such, the stability and/or activity of the siNA constructs can be modulated based on the design of the siNA construct for use in vivo or in vitro and/or in vitro.

Figure 7A-C is a diagrammatic representation of a scheme utilized in generating an expression cassette to generate siNA hairpin constructs.

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Figure 7A: A DNA oligomer is synthesized with a 5'-restriction site (R1) sequence followed by a region having sequence identical (sense region of siNA) to a predetermined target sequence, wherein the sense region comprises, for example, about 19, 20, 21, or 22 nucleotides (N) in length, which is followed by a loop sequence of defined sequence (X), comprising, for example, about 3 to about 10 nucleotides.

- **Figure 7B:** The synthetic construct is then extended by DNA polymerase to generate a hairpin structure having self-complementary sequence that will result in a siNA transcript having specificity for a target sequence and having self-complementary sense and antisense regions.
- Figure 7C: The construct is heated (for example to about 95°C) to linearize the sequence, thus allowing extension of a complementary second DNA strand using a primer to the 3'-restriction sequence of the first strand. The double-stranded DNA is then inserted into an appropriate vector for expression in cells. The construct can be designed such that a 3'-terminal nucleotide overhang results from the transcription, for example, by engineering restriction sites and/or utilizing a poly-U termination region as described in Paul et al., 2002, Nature Biotechnology, 29, 505-508.
 - Figure 8A-C is a diagrammatic representation of a scheme utilized in generating an expression cassette to generate double-stranded siNA constructs.
- Figure 8A: A DNA oligomer is synthesized with a 5'-restriction (R1) site sequence followed by a region having sequence identical (sense region of siNA) to a predetermined target sequence, wherein the sense region comprises, for example, about 19, 20, 21, or 22 nucleotides (N) in length, and which is followed by a 3'-restriction site (R2) which is adjacent to a loop sequence of defined sequence (X).
 - **Figure 8B:** The synthetic construct is then extended by DNA polymerase to generate a hairpin structure having self-complementary sequence.
 - Figure 8C: The construct is processed by restriction enzymes specific to R1 and R2 to generate a double-stranded DNA which is then inserted into an appropriate vector for expression in cells. The transcription cassette is designed such that a U6 promoter region flanks each side of the dsDNA which generates the separate sense and antisense

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strands of the siNA. Poly T termination sequences can be added to the constructs to generate U overhangs in the resulting transcript.

- Figure 9A-E is a diagrammatic representation of a method used to determine target sites for siNA mediated RNAi within a particular target nucleic acid sequence, such as messenger RNA.
- Figure 9A: A pool of siNA oligonucleotides are synthesized wherein the antisense region of the siNA constructs has complementarity to target sites across the target nucleic acid sequence, and wherein the sense region comprises sequence complementary to the antisense region of the siNA.
- 10 Figure 9B&C: (Figure 9B) The sequences are pooled and are inserted into vectors such that (Figure 9C) transfection of a vector into cells results in the expression of the siNA.
 - Figure 9D: Cells are sorted based on phenotypic change that is associated with modulation of the target nucleic acid sequence.
- Figure 9E: The siNA is isolated from the sorted cells and is sequenced to identify efficacious target sites within the target nucleic acid sequence.
 - Figure 10 shows non-limiting examples of different stabilization chemistries (1-10) that can be used, for example, to stabilize the 3'-end of siNA sequences of the invention, including (1) [3-3']-inverted deoxyribose; (2) deoxyribonucleotide; (3) [5'-3']-3'-deoxyribonucleotide; (4) [5'-3']-ribonucleotide; (5) [5'-3']-3'-O-methyl ribonucleotide; (6) 3'-glyceryl; (7) [3'-5']-3'-deoxyribonucleotide; (8) [3'-3']-deoxyribonucleotide; (9) [5'-2']-deoxyribonucleotide; and (10) [5-3']-dideoxyribonucleotide. In addition to modified and unmodified backbone chemistries indicated in the figure, these chemistries can be combined with different backbone modifications as described herein, for example, backbone modifications having Formula I. In addition, the 2'-deoxy nucleotide shown 5' to the terminal modifications shown can be another modified or unmodified nucleotide or non-nucleotide described herein, for example modifications having any of Formulae I-VII or any combination thereof.

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Figure 11 shows a non-limiting example of a strategy used to identify chemically modified siNA constructs of the invention that are nuclease resistance while preserving the ability to mediate RNAi activity. Chemical modifications are introduced into the siNA construct based on educated design parameters (e.g. introducing 2'-mofications, base modifications, backbone modifications, terminal cap modifications etc). The modified construct in tested in an appropriate system (e.g. human serum for nuclease resistance, shown, or an animal model for PK/delivery parameters). In parallel, the siNA construct is tested for RNAi activity, for example in a cell culture system such as a luciferase reporter assay). Lead siNA constructs are then identified which possess a particular characteristic while maintaining RNAi activity, and can be further modified and assayed once again. This same approach can be used to identify siNA-conjugate molecules with improved pharmacokinetic profiles, delivery, and RNAi activity.

Figure 12 shows non-limiting examples of phosphorylated siNA molecules of the invention, including linear and duplex constructs and asymmetric derivatives thereof.

15 **Figure 13** shows non-limiting examples of chemically modified terminal phosphate groups of the invention.

Figure 14A shows a non-limiting example of methodology used to design self complementary DFO constructs utilizing palidrome and/or repeat nucleic acid sequences that are identified in a target nucleic acid sequence. (i) A palindrome or repeat sequence is identified in a nucleic acid target sequence. (ii) A sequence is designed that is complementary to the target nucleic acid sequence and the palindrome sequence. (iii) An inverse repeat sequence of the non-palindrome/repeat portion of the complementary sequence is appended to the 3'-end of the complementary sequence to generate a self complementary DFO molecule comprising sequence complementary to the nucleic acid target. (iv) The DFO molecule can self-assemble to form a double stranded oligonucleotide. Figure 14B shows a non-limiting representative example of a duplex forming oligonucleotide sequence. Figure 14C shows a non-limiting example of the self assembly schematic of a representative duplex forming oligonucleotide sequence. Figure 14D shows a non-limiting example of the self assembly schematic of a representative duplex forming oligonucleotide sequence followed by interaction with a target nucleic acid sequence resulting in modulation of gene expression.

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Figure 15 shows a non-limiting example of the design of self complementary DFO constructs utilizing palidrome and/or repeat nucleic acid sequences that are incorporated into the DFO constructs that have sequence complementary to any target nucleic acid sequence of interest. Incorporation of these palindrome/repeat sequences allow the design of DFO constructs that form duplexes in which each strand is capable of mediating modulation of target gene expression, for example by RNAi. First, the target sequence is identified. A complementary sequence is then generated in which nucleotide or non-nucleotide modifications (shown as X or Y) are introduced into the complementary sequence that generate an artificial palindrome (shown as XYXYXY in the Figure). An inverse repeat of the non-palindrome/repeat complementary sequence is appended to the 3'-end of the complementary sequence to generate a self complementary DFO comprising sequence complementary to the nucleic acid target. The DFO can self-assemble to form a double stranded oligonucleotide.

Figure 16 shows non-limiting examples of multifunctional siNA molecules of the invention comprising two separate polynucleotide sequences that are each capable of mediating RNAi directed cleavage of differing target nucleic acid sequences. Figure 16A shows a non-limiting example of a multifunctional siNA molecule having a first region that is complementary to a first target nucleic acid sequence (complementary region 1) and a second region that is complementary to a second target nucleic acid sequence (complementary region 2), wherein the first and second complementary regions are situated at the 3'-ends of each polynucleotide sequence in the multifunctional siNA. The dashed portions of each polynucleotide sequence of the multifunctional siNA construct have complementarity with regard to corresponding portions of the siNA duplex, but do not have complementarity to the target nucleic acid sequences. Figure 16B shows a non-limiting example of a multifunctional siNA molecule having a first region that is complementary to a first target nucleic acid sequence (complementary region 1) and a second region that is complementary to a second target nucleic acid sequence (complementary region 2), wherein the first and second complementary regions are situated at the 5'-ends of each polynucleotide sequence in the multifunctional siNA. The dashed portions of each polynucleotide sequence of the multifunctional siNA construct have complementarity with regard to corresponding portions of the siNA duplex, but do not have complementarity to the target nucleic acid sequences.

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Figure 17 shows non-limiting examples of multifunctional siNA molecules of the invention comprising a single polynucleotide sequence comprising distinct regions that are each capable of mediating RNAi directed cleavage of differing target nucleic acid sequences. Figure 17A shows a non-limiting example of a multifunctional siNA molecule having a first region that is complementary to a first target nucleic acid sequence (complementary region 1) and a second region that is complementary to a second target nucleic acid sequence (complementary region 2), wherein the second complementary region is situated at the 3'-end of the polynucleotide sequence in the multifunctional siNA. The dashed portions of each polynucleotide sequence of the multifunctional siNA construct have complementarity with regard to corresponding portions of the siNA duplex, but do not have complementarity to the target nucleic acid sequences. Figure 17B shows a non-limiting example of a multifunctional siNA molecule having a first region that is complementary to a first target nucleic acid sequence (complementary region 1) and a second region that is complementary to a second target nucleic acid sequence (complementary region 2), wherein the first complementary region is situated at the 5'-end of the polynucleotide sequence in the multifunctional siNA. The dashed portions of each polynucleotide sequence of the multifunctional siNA construct have complementarity with regard to corresponding portions of the siNA duplex, but do not have complementarity to the target nucleic acid sequences. In one embodiment, these multifunctional siNA constructs are processed in vivo or in vitro to generate multifunctional siNA constructs as shown in Figure 16.

Figure 18 shows non-limiting examples of multifunctional siNA molecules of the invention comprising two separate polynucleotide sequences that are each capable of mediating RNAi directed cleavage of differing target nucleic acid sequences and wherein the multifunctional siNA construct further comprises a self complementary, palindrome, or repeat region, thus enabling shorter bifuctional siNA constructs that can mediate RNA interference against differing target nucleic acid sequences. Figure 18A shows a non-limiting example of a multifunctional siNA molecule having a first region that is complementary to a first target nucleic acid sequence (complementary region 1) and a second region that is complementary to a second target nucleic acid sequence (complementary region 2), wherein the first and second complementary regions are situated at the 3°-ends of each polynucleotide sequence in the multifunctional siNA, and

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wherein the first and second complementary regions further comprise a self complementary, palindrome, or repeat region. The dashed portions of each polynucleotide sequence of the multifunctional siNA construct have complementarity with regard to corresponding portions of the siNA duplex, but do not have complementarity to the target nucleic acid sequences. Figure 18B shows a non-limiting example of a multifunctional siNA molecule having a first region that is complementary to a first target nucleic acid sequence (complementary region 1) and a second region that is complementary to a second target nucleic acid sequence (complementary region 2), wherein the first and second complementary regions are situated at the 5'-ends of each polynucleotide sequence in the multifunctional siNA, and wherein the first and second complementary regions further comprise a self complementary, palindrome, or repeat region. The dashed portions of each polynucleotide sequence of the multifunctional siNA construct have complementarity with regard to corresponding portions of the siNA duplex, but do not have complementarity to the target nucleic acid sequences.

Figure 19 shows non-limiting examples of multifunctional siNA molecules of the invention comprising a single polynucleotide sequence comprising distinct regions that are each capable of mediating RNAi directed cleavage of differing target nucleic acid sequences and wherein the multifunctional siNA construct further comprises a self complementary, palindrome, or repeat region, thus enabling shorter bifuctional siNA constructs that can mediate RNA interference against differing target nucleic acid sequences. Figure 19A shows a non-limiting example of a multifunctional siNA molecule having a first region that is complementary to a first target nucleic acid sequence (complementary region 1) and a second region that is complementary to a second target nucleic acid sequence (complementary region 2), wherein the second complementary region is situated at the 3'-end of the polynucleotide sequence in the multifunctional siNA, and wherein the first and second complementary regions further comprise a self complementary, palindrome, or repeat region. The dashed portions of each polynucleotide sequence of the multifunctional siNA construct have complementarity with regard to corresponding portions of the siNA duplex, but do not have complementarity to the target nucleic acid sequences. Figure 19B shows a nonlimiting example of a multifunctional siNA molecule having a first region that is complementary to a first target nucleic acid sequence (complementary region 1) and a

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second region that is complementary to a second target nucleic acid sequence (complementary region 2), wherein the first complementary region is situated at the 5'-end of the polynucleotide sequence in the multifunctional siNA, and wherein the first and second complementary regions further comprise a self complementary, palindrome, or repeat region. The dashed portions of each polynucleotide sequence of the multifunctional siNA construct have complementarity with regard to corresponding portions of the siNA duplex, but do not have complementarity to the target nucleic acid sequences. In one embodiment, these multifunctional siNA constructs are processed in vivo or in vitro to generate multifunctional siNA constructs as shown in Figure 18.

Figure 20 shows a non-limiting example of how multifunctional siNA molecules of the invention can target two separate target nucleic acid molecules, such as separate RNA molecules encoding differing proteins, for example, a cytokine and its corresponding receptor, differing viral strains, a virus and a cellular protein involved in viral infection or replication, or differing proteins involved in a common or divergent biologic pathway that is implicated in the maintenance of progression of disease. Each strand of the multifunctional siNA construct comprises a region having complementarity to separate target nucleic acid molecules. The multifunctional siNA molecule is designed such that each strand of the siNA can be utilized by the RISC complex to initiate RNA interference mediated cleavage of its corresponding target. These design parameters can include destabilization of each end of the siNA construct (see for example Schwarz et al., 2003, Cell, 115, 199-208). Such destabilization can be accomplished for example by using guanosine-cytidine base pairs, alternate base pairs (e.g., wobbles), or destabilizing chemically modified nucleotides at terminal nucleotide positions as is known in the art.

Figure 21 shows a non-limiting example of how multifunctional siNA molecules of the invention can target two separate target nucleic acid sequences within the same target nucleic acid molecule, such as alternate coding regions of a RNA, coding and non-coding regions of a RNA, or alternate splice variant regions of a RNA. Each strand of the multifunctional siNA construct comprises a region having complementarity to the separate regions of the target nucleic acid molecule. The multifunctional siNA molecule is designed such that each strand of the siNA can be utilized by the RISC complex to

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initiate RNA interference mediated cleavage of its corresponding target region. These design parameters can include destabilization of each end of the siNA construct (see for example Schwarz et al., 2003, Cell, 115, 199-208). Such destabilization can be accomplished for example by using guanosine-cytidine base pairs, alternate base pairs (e.g., wobbles), or destabilizing chemically modified nucleotides at terminal nucleotide positions as is known in the art.

DETAILED DESCRIPTION OF THE INVENTION

Mechanism of Action of Nucleic Acid Molecules of the Invention

The discussion that follows discusses the proposed mechanism of RNA interference mediated by short interfering RNA as is presently known, and is not meant to be limiting and is not an admission of prior art. Applicant demonstrates herein that chemically-modified short interfering nucleic acids possess similar or improved capacity to mediate RNAi as do siRNA molecules and are expected to possess improved stability and activity *in vivo*; therefore, this discussion is not meant to be limiting only to siRNA and can be applied to siNA as a whole. By "improved capacity to mediate RNAi" or "improved RNAi activity" is meant to include RNAi activity measured *in vitro* and/or *in vivo* where the RNAi activity is a reflection of both the ability of the siNA to mediate RNAi and the stability of the siNAs of the invention. In this invention, the product of these activities can be increased *in vitro* and/or *in vivo* compared to an all RNA siRNA or a siNA containing a plurality of ribonucleotides. In some cases, the activity or stability of the siNA molecule can be decreased (i.e., less than ten-fold), but the overall activity of the siNA molecule is enhanced *in vitro* and/or *in vivo*.

RNA interference refers to the process of sequence specific post-transcriptional gene silencing in animals mediated by short interfering RNAs (siRNAs) (Fire et al., 1998, Nature, 391, 806). The corresponding process in plants is commonly referred to as post-transcriptional gene silencing or RNA silencing and is also referred to as quelling in fungi. The process of post-transcriptional gene silencing is thought to be an evolutionarily-conserved cellular defense mechanism used to prevent the expression of foreign genes which is commonly shared by diverse flora and phyla (Fire et al., 1999, Trends Genet., 15, 358). Such protection from foreign gene expression may have

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evolved in response to the production of double-stranded RNAs (dsRNAs) derived from viral infection or the random integration of transposon elements into a host genome via a cellular response that specifically destroys homologous single-stranded RNA or viral genomic RNA. The presence of dsRNA in cells triggers the RNAi response though a mechanism that has yet to be fully characterized. This mechanism appears to be different from the interferon response that results from dsRNA-mediated activation of protein kinase PKR and 2', 5'-oligoadenylate synthetase resulting in non-specific cleavage of mRNA by ribonuclease L.

The presence of long dsRNAs in cells stimulates the activity of a ribonuclease III enzyme referred to as Dicer. Dicer is involved in the processing of the dsRNA into short pieces of dsRNA known as short interfering RNAs (siRNAs) (Berstein et al., 2001, Nature, 409, 363). Short interfering RNAs derived from Dicer activity are typically about 21 to about 23 nucleotides in length and comprise about 19 base pair duplexes. Dicer has also been implicated in the excision of 21- and 22-nucleotide small temporal RNAs (stRNAs) from precursor RNA of conserved structure that are implicated in translational control (Hutvagner et al., 2001, Science, 293, 834). The RNAi response also features an endonuclease complex containing a siRNA, commonly referred to as an RNA-induced silencing complex (RISC), which mediates cleavage of single-stranded RNA having sequence homologous to the siRNA. Cleavage of the target RNA takes place in the middle of the region complementary to the guide sequence of the siRNA duplex (Elbashir et al., 2001, Genes Dev., 15, 188). In addition, RNA interference can also involve small RNA (e.g., micro-RNA or miRNA) mediated gene silencing, presumably though cellular mechanisms that regulate chromatin structure and thereby prevent transcription of target gene sequences (see for example Allshire, 2002, Science, 297, 1818-1819; Volpe et al., 2002, Science, 297, 1833-1837; Jenuwein, 2002, Science, 297, 2215-2218; and Hall et al., 2002, Science, 297, 2232-2237). As such, siNA molecules of the invention can be used to mediate gene silencing via interaction with RNA transcripts or alternately by interaction with particular gene sequences, wherein such interaction results in gene silencing either at the transcriptional level or posttranscriptional level.

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RNAi has been studied in a variety of systems. Fire et al., 1998, Nature, 391, 806, were the first to observe RNAi in C. elegans. Wianny and Goetz, 1999, Nature Cell Biol., 2, 70, describe RNAi mediated by dsRNA in mouse embryos. Hammond et al., 2000, Nature, 404, 293, describe RNAi in Drosophila cells transfected with dsRNA. Elbashir et al., 2001, Nature, 411, 494, describe RNAi induced by introduction of duplexes of synthetic 21-nucleotide RNAs in cultured mammalian cells including human embryonic kidney and HeLa cells. Recent work in Drosophila embryonic lysates has revealed certain requirements for siRNA length, structure, chemical composition, and sequence that are essential to mediate efficient RNAi activity. These studies have shown that 21 nucleotide siRNA duplexes are most active when containing two 2-nucleotide 3'terminal nucleotide overhangs. Furthermore, substitution of one or both siRNA strands with 2'-deoxy or 2'-O-methyl nucleotides abolishes RNAi activity, whereas substitution of 3'-terminal siRNA nucleotides with deoxy nucleotides was shown to be tolerated. Mismatch sequences in the center of the siRNA duplex were also shown to abolish RNAi activity. In addition, these studies also indicate that the position of the cleavage site in the target RNA is defined by the 5'-end of the siRNA guide sequence rather than the 3'end (Elbashir et al., 2001, EMBO J., 20, 6877). Other studies have indicated that a 5'phosphate on the target-complementary strand of a siRNA duplex is required for siRNA activity and that ATP is utilized to maintain the 5'-phosphate moiety on the siRNA (Nykanen et al., 2001, Cell, 107, 309); however, siRNA molecules lacking a 5'phosphate are active when introduced exogenously, suggesting that 5'-phosphorylation of siRNA constructs may occur in vivo.

Synthesis of Nucleic Acid Molecules

Synthesis of nucleic acids greater than 100 nucleotides in length is difficult using automated methods, and the therapeutic cost of such molecules is prohibitive. In this invention, small nucleic acid motifs ("small" refers to nucleic acid motifs no more than 100 nucleotides in length, preferably no more than 80 nucleotides in length, and most preferably no more than 50 nucleotides in length; *e.g.*, individual siNA oligonucleotide sequences or siNA sequences synthesized in tandem) are preferably used for exogenous delivery. The simple structure of these molecules increases the ability of the nucleic acid

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to invade targeted regions of protein and/or RNA structure. Exemplary molecules of the instant invention are chemically synthesized, and others can similarly be synthesized.

Oligonucleotides (e.g., certain modified oligonucleotides or portions of oligonucleotides lacking ribonucleotides) are synthesized using protocols known in the art, for example as described in Caruthers et al., 1992, Methods in Enzymology 211, 3-19, Thompson et al., International PCT Publication No. WO 99/54459, Wincott et al., 1995, Nucleic Acids Res. 23, 2677-2684, Wincott et al., 1997, Methods Mol. Bio., 74, 59, Brennan et al., 1998, Biotechnol Bioeng., 61, 33-45, and Brennan, U.S. Pat. No. 6,001,311. All of these references are incorporated herein by reference. The synthesis of oligonucleotides makes use of common nucleic acid protecting and coupling groups, such as dimethoxytrityl at the 5'-end, and phosphoramidites at the 3'-end. In a nonlimiting example, small scale syntheses are conducted on a 394 Applied Biosystems, Inc. synthesizer using a 0.2 µmol scale protocol with a 2.5 min coupling step for 2'-Omethylated nucleotides and a 45 second coupling step for 2'-deoxy nucleotides or 2'deoxy-2'-fluoro nucleotides. Table III outlines the amounts and the contact times of the reagents used in the synthesis cycle. Alternatively, syntheses at the 0.2 µmol scale can be performed on a 96-well plate synthesizer, such as the instrument produced by Protogene (Palo Alto, CA) with minimal modification to the cycle. A 33-fold excess (60 μ L of 0.11 M = 6.6 μ mol) of 2'-O-methyl phosphoramidite and a 105-fold excess of Sethyl tetrazole (60 μ L of 0.25 M = 15 μ mol) can be used in each coupling cycle of 2'-Omethyl residues relative to polymer-bound 5'-hydroxyl. A 22-fold excess (40 µL of 0.11 M = 4.4 µmol) of deoxy phosphoramidite and a 70-fold excess of S-ethyl tetrazole (40 μ L of 0.25 M = 10 μ mol) can be used in each coupling cycle of deoxy residues relative to polymer-bound 5'-hydroxyl. Average coupling yields on the 394 Applied Biosystems, Inc. synthesizer, determined by colorimetric quantitation of the trityl fractions, are typically 97.5-99%. Other oligonucleotide synthesis reagents for the 394 Applied Biosystems, Inc. synthesizer include the following: detritylation solution is 3% TCA in methylene chloride (ABI); capping is performed with 16% N-methyl imidazole in THF (ABI) and 10% acetic anhydride/10% 2,6-lutidine in THF (ABI); and oxidation solution is 16.9 mM I2, 49 mM pyridine, 9% water in THF (PerSeptive Biosystems, Inc.). Burdick & Jackson Synthesis Grade acetonitrile is used directly from the reagent bottle. S-Ethyltetrazole solution (0.25 M in acetonitrile) is made up from the solid obtained

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from American International Chemical, Inc. Alternately, for the introduction of phosphorothioate linkages, Beaucage reagent (3H-1,2-Benzodithiol-3-one 1,1-dioxide, 0.05 M in acetonitrile) is used.

Deprotection of the DNA-based oligonucleotides is performed as follows: the polymer-bound trityl-on oligoribonucleotide is transferred to a 4 mL glass screw top vial and suspended in a solution of 40% aqueous methylamine (1 mL) at 65 °C for 10 minutes. After cooling to -20 °C, the supernatant is removed from the polymer support. The support is washed three times with 1.0 mL of EtOH:MeCN:H2O/3:1:1, vortexed and the supernatant is then added to the first supernatant. The combined supernatants, containing the oligoribonucleotide, are dried to a white powder.

The method of synthesis used for RNA including certain siNA molecules of the invention follows the procedure as described in Usman et al., 1987, J. Am. Chem. Soc., 109, 7845; Scaringe et al., 1990, Nucleic Acids Res., 18, 5433; and Wincott et al., 1995, Nucleic Acids Res. 23, 2677-2684 Wincott et al., 1997, Methods Mol. Bio., 74, 59, and makes use of common nucleic acid protecting and coupling groups, such as dimethoxytrityl at the 5'-end, and phosphoramidites at the 3'-end. In a non-limiting example, small scale syntheses are conducted on a 394 Applied Biosystems, Inc. synthesizer using a 0.2 µmol scale protocol with a 7.5 min coupling step for alkylsilyl protected nucleotides and a 2.5 min coupling step for 2'-O-methylated nucleotides. Table III outlines the amounts and the contact times of the reagents used in the synthesis cycle. Alternatively, syntheses at the 0.2 µmol scale can be done on a 96-well plate synthesizer, such as the instrument produced by Protogene (Palo Alto, CA) with minimal modification to the cycle. A 33-fold excess (60 μ L of 0.11 M = 6.6 μ mol) of 2'-Omethyl phosphoramidite and a 75-fold excess of S-ethyl tetrazole (60 μ L of 0.25 M = 15 μmol) can be used in each coupling cycle of 2'-O-methyl residues relative to polymerbound 5'-hydroxyl. A 66-fold excess (120 μ L of 0.11 M = 13.2 μ mol) of alkylsilyl (ribo) protected phosphoramidite and a 150-fold excess of S-ethyl tetrazole (120 μL of 0.25 M = 30 µmol) can be used in each coupling cycle of ribo residues relative to polymerbound 5'-hydroxyl. Average coupling yields on the 394 Applied Biosystems, Inc. synthesizer, determined by colorimetric quantitation of the trityl fractions, are typically 97.5-99%. Other oligonucleotide synthesis reagents for the 394 Applied Biosystems,

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Inc. synthesizer include the following: detritylation solution is 3% TCA in methylene chloride (ABI); capping is performed with 16% N-methyl imidazole in THF (ABI) and 10% acetic anhydride/10% 2,6-1utidine in THF (ABI); oxidation solution is 16.9 mM I₂, 49 mM pyridine, 9% water in THF (PerSeptive Biosystems, Inc.). Burdick & Jackson Synthesis Grade acetonitrile is used directly from the reagent bottle. S-Ethyltetrazole solution (0.25 M in acetonitrile) is made up from the solid obtained from American International Chemical, Inc. Alternately, for the introduction of phosphorothioate linkages, Beaucage reagent (3H-1,2-Benzodithiol-3-one 1,1-dioxide0.05 M in acetonitrile) is used.

Deprotection of the RNA is performed using either a two-pot or one-pot protocol. For the two-pot protocol, the polymer-bound trityl-on oligoribonucleotide is transferred to a 4 mL glass screw top vial and suspended in a solution of 40% aq. methylamine (1 mL) at 65 °C for 10 min. After cooling to -20 °C, the supernatant is removed from the polymer support. The support is washed three times with 1.0 mL of EtOH:MeCN:H2O/3:1:1, vortexed and the supernatant is then added to the first supernatant. The combined supernatants, containing the oligoribonucleotide, are dried to a white powder. The base deprotected oligoribonucleotide is resuspended in anhydrous TEA/HF/NMP solution (300 μL of a solution of 1.5 mL N-methylpyrrolidinone, 750 μL TEA and 1 mL TEA•3HF to provide a 1.4 M HF concentration) and heated to 65 °C. After 1.5 h, the oligomer is quenched with 1.5 M NH₄HCO₃.

Alternatively, for the one-pot protocol, the polymer-bound trityl-on oligoribonucleotide is transferred to a 4 mL glass screw top vial and suspended in a solution of 33% ethanolic methylamine/DMSO: 1/1 (0.8 mL) at 65 °C for 15 minutes. The vial is brought to room temperature TEA•3HF (0.1 mL) is added and the vial is heated at 65 °C for 15 minutes. The sample is cooled at -20 °C and then quenched with 1.5 M NH₄HCO₃.

For purification of the trityl-on oligomers, the quenched NH_4HCO_3 solution is loaded onto a C-18 containing cartridge that had been prewashed with acetonitrile followed by 50 mM TEAA. After washing the loaded cartridge with water, the RNA is detritylated with 0.5% TFA for 13 minutes. The cartridge is then washed again with

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water, salt exchanged with 1 M NaCl and washed with water again. The oligonucleotide is then eluted with 30% acetonitrile.

The average stepwise coupling yields are typically >98% (Wincott *et al.*, 1995 *Nucleic Acids Res.* 23, 2677-2684). Those of ordinary skill in the art will recognize that the scale of synthesis can be adapted to be larger or smaller than the example described above including but not limited to 96-well format.

Alternatively, the nucleic acid molecules of the present invention can be synthesized separately and joined together post-synthetically, for example, by ligation (Moore et al., 1992, Science 256, 9923; Draper et al., International PCT publication No. WO 93/23569; Shabarova et al., 1991, Nucleic Acids Research 19, 4247; Bellon et al., 1997, Nucleosides & Nucleotides, 16, 951; Bellon et al., 1997, Bioconjugate Chem. 8, 204), or by hybridization following synthesis and/or deprotection.

The siNA molecules of the invention can also be synthesized via a tandem synthesis methodology as described in Example 1 herein, wherein both siNA strands are synthesized as a single contiguous oligonucleotide fragment or strand separated by a cleavable linker which is subsequently cleaved to provide separate siNA fragments or strands that hybridize and permit purification of the siNA duplex. The linker can be a polynucleotide linker or a non-nucleotide linker. The tandem synthesis of siNA as described herein can be readily adapted to both multiwell/multiplate synthesis platforms such as 96 well or similarly larger multi-well platforms. The tandem synthesis of siNA as described herein can also be readily adapted to large scale synthesis platforms employing batch reactors, synthesis columns and the like.

A siNA molecule can also be assembled from two distinct nucleic acid strands or fragments wherein one fragment includes the sense region and the second fragment includes the antisense region of the RNA molecule.

The nucleic acid molecules of the present invention can be modified extensively to enhance stability by modification with nuclease resistant groups, for example, 2'-amino, 2'-C-allyl, 2'-fluoro, 2'-O-methyl, 2'-H (for a review see Usman and Cedergren, 1992, TIBS 17, 34; Usman et al., 1994, Nucleic Acids Symp. Ser. 31, 163). siNA constructs can be purified by gel electrophoresis using general methods or can be purified by high

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pressure liquid chromatography (HPLC; see Wincott et al., supra, the totality of which is hereby incorporated herein by reference) and re-suspended in water.

In another aspect of the invention, siNA molecules of the invention are expressed from transcription units inserted into DNA or RNA vectors. The recombinant vectors can be DNA plasmids or viral vectors. siNA expressing viral vectors can be constructed based on, but not limited to, adeno-associated virus, retrovirus, adenovirus, or alphavirus. The recombinant vectors capable of expressing the siNA molecules can be delivered as described herein, and persist in target cells. Alternatively, viral vectors can be used that provide for transient expression of siNA molecules.

10 Optimizing Activity of the nucleic acid molecule of the invention.

Chemically synthesizing nucleic acid molecules with modifications (base, sugar and/or phosphate) can prevent their degradation by serum ribonucleases, which can increase their potency (see e.g., Eckstein et al., International Publication No. WO 92/07065; Perrault et al., 1990 Nature 344, 565; Pieken et al., 1991, Science 253, 314; Usman and Cedergren, 1992, Trends in Biochem. Sci. 17, 334; Usman et al., International Publication No. WO 93/15187; and Rossi et al., International Publication No. WO 91/03162; Sproat, U.S. Pat. No. 5,334,711; Gold et al., U.S. Pat. No. 6,300,074; and Burgin et al., supra; all of which are incorporated by reference herein). All of the above references describe various chemical modifications that can be made to the base, phosphate and/or sugar moieties of the nucleic acid molecules described herein. Modifications that enhance their efficacy in cells, and removal of bases from nucleic acid molecules to shorten oligonucleotide synthesis times and reduce chemical requirements are desired.

There are several examples in the art describing sugar, base and phosphate modifications that can be introduced into nucleic acid molecules with significant enhancement in their nuclease stability and efficacy. For example, oligonucleotides are modified to enhance stability and/or enhance biological activity by modification with nuclease resistant groups, for example, 2'-amino, 2'-C-allyl, 2'-fluoro, 2'-O-methyl, 2'-O-allyl, 2'-H, nucleotide base modifications (for a review see Usman and Cedergren, 1992, TIBS. 17, 34; Usman et al., 1994, Nucleic Acids Symp. Ser. 31, 163; Burgin et al., 1996,

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Biochemistry, 35, 14090). Sugar modification of nucleic acid molecules have been extensively described in the art (see Eckstein et al., International Publication PCT No. WO 92/07065; Perrault et al. Nature, 1990, 344, 565-568; Pieken et al. Science, 1991, 253, 314-317; Usman and Cedergren, Trends in Biochem. Sci., 1992, 17, 334-339; Usman et al. International Publication PCT No. WO 93/15187; Sproat, U.S. Pat. No. 5,334,711 and Beigelman et al., 1995, J. Biol. Chem., 270, 25702; Beigelman et al., International PCT publication No. WO 97/26270; Beigelman et al., U.S. Pat. No. 5,716,824; Usman et al., U.S. Pat. No. 5,627,053; Woolf et al., International PCT Publication No. WO 98/13526; Thompson et al., USSN 60/082,404 which was filed on April 20, 1998; Karpeisky et al., 1998, Tetrahedron Lett., 39, 1131; Earnshaw and Gait, 1998, Biopolymers (Nucleic Acid Sciences), 48, 39-55; Verma and Eckstein, 1998, Annu. Rev. Biochem., 67, 99-134; and Burlina et al., 1997, Bioorg. Med. Chem., 5, 1999-2010; all of the references are hereby incorporated in their totality by reference herein). Such publications describe general methods and strategies to determine the location of incorporation of sugar, base and/or phosphate modifications and the like into nucleic acid molecules without modulating catalysis, and are incorporated by reference herein. In view of such teachings, similar modifications can be used as described herein to modify the siNA nucleic acid molecules of the instant invention so long as the ability of siNA to promote RNAi is cells is not significantly inhibited.

While chemical modification of oligonucleotide internucleotide linkages with phosphorothioate, phosphorodithioate, and/or 5'-methylphosphonate linkages improves stability, excessive modifications can cause some toxicity or decreased activity. Therefore, when designing nucleic acid molecules, the amount of these internucleotide linkages should be minimized. The reduction in the concentration of these linkages should lower toxicity, resulting in increased efficacy and higher specificity of these molecules.

Short interfering nucleic acid (siNA) molecules having chemical modifications that maintain or enhance activity are provided. Such a nucleic acid is also generally more resistant to nucleases than an unmodified nucleic acid. Accordingly, the *in vitro* and/or *in vivo* activity should not be significantly lowered. In cases in which modulation is the goal, therapeutic nucleic acid molecules delivered exogenously should optimally be

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stable within cells until translation of the target RNA has been modulated long enough to reduce the levels of the undesirable protein. This period of time varies between hours to days depending upon the disease state. Improvements in the chemical synthesis of RNA and DNA (Wincott et al., 1995, Nucleic Acids Res. 23, 2677; Caruthers et al., 1992, Methods in Enzymology 211, 3-19 (incorporated by reference herein)) have expanded the ability to modify nucleic acid molecules by introducing nucleotide modifications to enhance their nuclease stability, as described above.

In one embodiment, nucleic acid molecules of the invention include one or more (e.g., about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, or more) G-clamp nucleotides. A G-clamp nucleotide is a modified cytosine analog wherein the modifications confer the ability to hydrogen bond both Watson-Crick and Hoogsteen faces of a complementary guanine within a duplex, see for example Lin and Matteucci, 1998, J. Am. Chem. Soc., 120, 8531-8532. A single G-clamp analog substitution within an oligonucleotide can result in substantially enhanced helical thermal stability and mismatch discrimination when hybridized to complementary oligonucleotides. The inclusion of such nucleotides in nucleic acid molecules of the invention results in both enhanced affinity and specificity to nucleic acid targets, complementary sequences, or template strands. In another embodiment, nucleic acid molecules of the invention include one or more (e.g., about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, or more) LNA "locked nucleic acid" nucleotides such as a 2', 4'-C methylene bicyclo nucleotide (see for example Wengel et al., International PCT Publication No. WO 00/66604 and WO 99/14226).

In another embodiment, the invention features conjugates and/or complexes of siNA molecules of the invention. Such conjugates and/or complexes can be used to facilitate delivery of siNA molecules into a biological system, such as a cell. The conjugates and complexes provided by the instant invention can impart therapeutic activity by transferring therapeutic compounds across cellular membranes, altering the pharmacokinetics, and/or modulating the localization of nucleic acid molecules of the invention. The present invention encompasses the design and synthesis of novel conjugates and complexes for the delivery of molecules, including, but not limited to, small molecules, lipids, cholesterol, phospholipids, nucleosides, nucleotides, nucleic acids, antibodies, toxins, negatively charged polymers and other polymers, for example

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proteins, peptides, hormones, carbohydrates, polyethylene glycols, or polyamines, across cellular membranes. In general, the transporters described are designed to be used either individually or as part of a multi-component system, with or without degradable linkers. These compounds are expected to improve delivery and/or localization of nucleic acid molecules of the invention into a number of cell types originating from different tissues, in the presence or absence of serum (see Sullenger and Cech, U.S. Pat. No. 5,854,038). Conjugates of the molecules described herein can be attached to biologically active molecules via linkers that are biodegradable, such as biodegradable nucleic acid linker molecules.

The term "biodegradable linker" as used herein, refers to a nucleic acid or nonnucleic acid linker molecule that is designed as a biodegradable linker to connect one molecule to another molecule, for example, a biologically active molecule to a siNA molecule of the invention or the sense and antisense strands of a siNA molecule of the invention. The biodegradable linker is designed such that its stability can be modulated for a particular purpose, such as delivery to a particular tissue or cell type. The stability of a nucleic acid-based biodegradable linker molecule can be modulated by using various chemistries, for example combinations of ribonucleotides, deoxyribonucleotides, and chemically-modified nucleotides, such as 2'-O-methyl, 2'-fluoro, 2'-amino, 2'-O-amino, 2'-C-allyl, 2'-O-allyl, and other 2'-modified or base modified nucleotides. biodegradable nucleic acid linker molecule can be a dimer, trimer, tetramer or longer nucleic acid molecule, for example, an oligonucleotide of about 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, or 20 nucleotides in length, or can comprise a single nucleotide with a phosphorus-based linkage, for example, a phosphoramidate or phosphodiester linkage. The biodegradable nucleic acid linker molecule can also comprise nucleic acid backbone, nucleic acid sugar, or nucleic acid base modifications.

The term "biodegradable" as used herein, refers to degradation in a biological system, for example, enzymatic degradation or chemical degradation.

The term "biologically active molecule" as used herein refers to compounds or molecules that are capable of eliciting or modifying a biological response in a system. Non-limiting examples of biologically active siNA molecules either alone or in combination with other molecules contemplated by the instant invention include

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therapeutically active molecules such as antibodies, cholesterol, hormones, antivirals, peptides, proteins, chemotherapeutics, small molecules, vitamins, co-factors, nucleosides, nucleotides, oligonucleotides, enzymatic nucleic acids, antisense nucleic acids, triplex forming oligonucleotides, 2,5-A chimeras, siNA, dsRNA, allozymes, aptamers, decoys and analogs thereof. Biologically active molecules of the invention also include molecules capable of modulating the pharmacokinetics and/or pharmacodynamics of other biologically active molecules, for example, lipids and polymers such as polyamines, polyamides, polyethylene glycol and other polyethers.

The term "phospholipid" as used herein, refers to a hydrophobic molecule comprising at least one phosphorus group. For example, a phospholipid can comprise a phosphorus-containing group and saturated or unsaturated alkyl group, optionally substituted with OH, COOH, oxo, amine, or substituted or unsubstituted aryl groups.

Therapeutic nucleic acid molecules (e.g., siNA molecules) delivered exogenously optimally are stable within cells until reverse transcription of the RNA has been modulated long enough to reduce the levels of the RNA transcript. The nucleic acid molecules are resistant to nucleases in order to function as effective intracellular therapeutic agents. Improvements in the chemical synthesis of nucleic acid molecules described in the instant invention and in the art have expanded the ability to modify nucleic acid molecules by introducing nucleotide modifications to enhance their nuclease stability as described above.

In yet another embodiment, siNA molecules having chemical modifications that maintain or enhance enzymatic activity of proteins involved in RNAi are provided. Such nucleic acids are also generally more resistant to nucleases than unmodified nucleic acids. Thus, *in vitro* and/or *in vivo* the activity should not be significantly lowered.

Use of the nucleic acid-based molecules of the invention will lead to better treatments by affording the possibility of combination therapies (e.g., multiple siNA molecules targeted to different genes; nucleic acid molecules coupled with known small molecule modulators; or intermittent treatment with combinations of molecules, including different motifs and/or other chemical or biological molecules). The treatment of subjects with siNA molecules can also include combinations of different types of

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nucleic acid molecules, such as enzymatic nucleic acid molecules (ribozymes), allozymes, antisense, 2,5-A oligoadenylate, decoys, and aptamers.

In another aspect a siNA molecule of the invention comprises one or more 5' and/or a 3'- cap structure, for example, on only the sense siNA strand, the antisense siNA strand, or both siNA strands.

By "cap structure" is meant chemical modifications, which have been incorporated at either terminus of the oligonucleotide (see, for example, Adamic et al., U.S. Pat. No. 5,998,203, incorporated by reference herein). These terminal modifications protect the nucleic acid molecule from exonuclease degradation, and may help in delivery and/or localization within a cell. The cap may be present at the 5'-terminus (5'-cap) or at the 3'terminal (3'-cap) or may be present on both termini. In non-limiting examples, the 5'-cap includes, but is not limited to, glyceryl, inverted deoxy abasic residue (moiety); 4',5'methylene nucleotide; 1-(beta-D-erythrofuranosyl) nucleotide, 4'-thio nucleotide; carbocyclic nucleotide; 1,5-anhydrohexitol nucleotide; L-nucleotides; alpha-nucleotides; modified base nucleotide; phosphorodithioate limkage; threo-pentofuranosyl nucleotide; acyclic 3',4'-seco nucleotide; acyclic 3,4-dihydroxybutyl nucleotide; acyclic 3,5dihydroxypentyl nucleotide, 3'-3'-inverted nucleotide moiety; 3'-3'-inverted abasic moiety; 3'-2'-inverted nucleotide moiety; 3'-2'-inverted abasic moiety; 1,4-butanediol phosphate; 3'-phosphoramidate; hexylphosphate; aminohexyl phosphate; 3'-phosphate; 3'-phosphorothioate; phosphorodithioate; or bridging or non-bridging methylphosphonate moiety. Non-limiting examples of cap moieties are shown in Figure 10.

Non-limiting examples of the 3'-cap include, but are not limited to, glyceryl, inverted deoxy abasic residue (moiety), 4', 5'-methylene nucleotide; 1-(beta-Derythrofuranosyl) nucleotide; 4'-thio nucleotide, carbocyclic nucleotide; 5'-amino-alkyl phosphate; 1,3-diamino-2-propyl phosphate; 3-aminopropyl phosphate; 6-aminohexyl phosphate; 1,2-aminododecyl phosphate; hydroxypropyl phosphate; 1,5-anhydrohexitol nucleotide; L-nucleotide; alpha-nucleotide; modified base nucleotide; phosphorodithioate; threo-pentofuranosyl nucleotide; acyclic 3',4'-seco nucleotide; 3,4-dihydroxybutyl nucleotide; 3,5-dihydroxypentyl nucleotide, 5'-5'-inverted nucleotide moiety; 5'-5'-inverted abasic moiety; 5'-phosp-horamidate; 5'-phosp-horothioate; 1,4-

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butanediol phosphate; 5'-amino; bridging and/or non-bridging 5'-phosphoramidate, phosphorothioate and/or phosphorodithioate, bridging or non bridging methylphosphonate and 5'-mercapto moieties (for more details see Beaucage and Iyer, 1993, *Tetrahedron* 49, 1925; incorporated by reference herein).

By the term "non-nucleotide" is meant any group or compound which can be incorporated into a nucleic acid chain in the place of one or more nucleotide units, including either sugar and/or phosphate substitutions, and allows the remaining bases to exhibit their enzymatic activity. The group or compound is abasic in that it does not contain a commonly recognized nucleotide base, such as adenosine, guanine, cytosine, uracil or thymine and therefore lacks a base at the 1'-position.

An "alkyl" group refers to a saturated aliphatic hydrocarbon, including straightchain, branched-chain, and cyclic alkyl groups. Preferably, the alkyl group has 1 to 12 carbons. More preferably, it is a lower alkyl of from 1 to 7 carbons, more preferably 1 to 4 carbons. The alkyl group can be substituted or unsubstituted. When substituted the substituted group(s) is preferably, hydroxyl, cyano, alkoxy, =0, =S, NO2 or N(CH3)2, amino, or SH. The term also includes alkenyl groups that are unsaturated hydrocarbon groups containing at least one carbon-carbon double bond, including straight-chain, branched-chain, and cyclic groups. Preferably, the alkenyl group has 1 to 12 carbons. More preferably, it is a lower alkenyl of from 1 to 7 carbons, more preferably 1 to 4 carbons. The alkenyl group may be substituted or unsubstituted. When substituted the substituted group(s) is preferably, hydroxyl, cyano, alkoxy, =O, =S, NO2, halogen, N(CH₃)₂, amino, or SH. The term "alkyl" also includes alkynyl groups that have an unsaturated hydrocarbon group containing at least one carbon-carbon triple bond, including straight-chain, branched-chain, and cyclic groups. Preferably, the alkynyl group has 1 to 12 carbons. More preferably, it is a lower alkynyl of from 1 to 7 carbons, more preferably 1 to 4 carbons. The alkynyl group may be substituted or unsubstituted. When substituted the substituted group(s) is preferably, hydroxyl, cyano, alkoxy, =O, =S, NO₂ or N(CH₃)₂, amino or SH.

Such alkyl groups can also include aryl, alkylaryl, carbocyclic aryl, heterocyclic aryl, amide and ester groups. An "aryl" group refers to an aromatic group that has at

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least one ring having a conjugated pi electron system and includes carbocyclic aryl, heterocyclic aryl and biaryl groups, all of which may be optionally substituted. The preferred substituent(s) of aryl groups are halogen, trihalomethyl, hydroxyl, SH, OH, cyano, alkoxy, alkyl, alkenyl, alkynyl, and amino groups. An "alkylaryl" group refers to an alkyl group (as described above) covalently joined to an aryl group (as described above). Carbocyclic aryl groups are groups wherein the ring atoms on the aromatic ring are all carbon atoms. The carbon atoms are optionally substituted. Heterocyclic aryl groups are groups having from 1 to 3 heteroatoms as ring atoms in the aromatic ring and the remainder of the ring atoms are carbon atoms. Suitable heteroatoms include oxygen, sulfur, and nitrogen, and include furanyl, thienyl, pyridyl, pyrrolyl, N-lower alkyl pyrrolo, pyrimidyl, pyrazinyl, imidazolyl and the like, all optionally substituted. An "amide" refers to an -C(O)-NH-R, where R is either alkyl, aryl, alkylaryl or hydrogen. An "ester" refers to an -C(O)-OR', where R is either alkyl, aryl, alkylaryl or hydrogen.

By "nucleotide" as used herein is as recognized in the art to include natural bases (standard), and modified bases well known in the art. Such bases are generally located at the 1' position of a nucleotide sugar moiety. Nucleotides generally comprise a base, sugar and a phosphate group. The nucleotides can be unmodified or modified at the sugar, phosphate and/or base moiety, (also referred to interchangeably as nucleotide analogs, modified nucleotides, non-natural nucleotides, non-standard nucleotides and other; see, for example, Usman and McSwiggen, supra; Eckstein et al., International PCT Publication No. WO 92/07065; Usman et al., International PCT Publication No. WO 93/15187; Uhlman & Peyman, supra, all are hereby incorporated by reference herein). There are several examples of modified nucleic acid bases known in the art as summarized by Limbach et al., 1994, Nucleic Acids Res. 22, 2183. Some of the nonlimiting examples of base modifications that can be introduced into nucleic acid molecules include, inosine, purine, pyridin-4-one, pyridin-2-one, phenyl, pseudouracil, 2, 4, 6-trimethoxy benzene, 3-methyl uracil, dihydrouridine, naphthyl, aminophenyl, 5-alkylcytidines (e.g., 5-methylcytidine), 5-alkyluridines (e.g., ribothymidine), 5-halouridine (e.g., 5-bromouridine) or 6-azapyrimidines or 6-alkylpyrimidines (e.g. 6methyluridine), propyne, and others (Burgin et al., 1996, Biochemistry, 35, 14090; Uhlman & Peyman, supra). By "modified bases" in this aspect is meant nucleotide bases other than adenine, guanine, cytosine and uracil at 1' position or their equivalents.

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In one embodiment, the invention features modified siNA molecules, with phosphate backbone modifications comprising one or more phosphorothioate, phosphorodithioate, methylphosphonate, phosphotriester, morpholino, amidate carbamate, carboxymethyl, acetamidate, polyamide, sulfonate, sulfonamide, sulfamate, formacetal, thioformacetal, and/or alkylsilyl, substitutions. For a review of oligonucleotide backbone modifications, see Hunziker and Leumann, 1995, *Nucleic Acid Analogues: Synthesis and Properties*, in *Modern Synthetic Methods*, VCH, 331-417, and Mesmaeker et al., 1994, *Novel Backbone Replacements for Oligonucleotides*, in *Carbohydrate Modifications in Antisense Research*, ACS, 24-39.

By "abasic" is meant sugar moieties lacking a base or having other chemical groups in place of a base at the 1' position, see for example Adamic *et al.*, U.S. Pat. No. 5,998,203.

By "unmodified nucleoside" is meant one of the bases adenine, cytosine, guanine, thymine, or uracil joined to the 1' carbon of β -D-ribo-furanose.

By "modified nucleoside" is meant any nucleotide base which contains a modification in the chemical structure of an unmodified nucleotide base, sugar and/or phosphate. Non-limiting examples of modified nucleotides are shown by Formulae I-VII and/or other modifications described herein.

In connection with 2'-modified nucleotides as described for the present invention, by "amino" is meant 2'-NH₂ or 2'-O- NH₂, which can be modified or unmodified. Such modified groups are described, for example, in Eckstein *et al.*, U.S. Pat. No. 5,672,695 and Matulic-Adamic *et al.*, U.S. Pat. No. 6,248,878, which are both incorporated by reference in their entireties.

Various modifications to nucleic acid siNA structure can be made to enhance the utility of these molecules. Such modifications will enhance shelf-life, half-life *in vitro*, stability, and ease of introduction of such oligonucleotides to the target site, *e.g.*, to enhance penetration of cellular membranes, and confer the ability to recognize and bind to targeted cells.

Administration of Nucleic Acid Molecules

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A siNA molecule of the invention can be adapted for use to prevent or treat diseases, traits, disorders, and/or conditions described herein or otherwise known in the art to be related to gene expression, and/or any other trait, disease, disorder or condition that is related to or will respond to the levels of a target polynucleotide in a cell or tissue, alone or in combination with other therapies. For example, a siNA molecule can comprise a delivery vehicle, including liposomes, for administration to a subject, carriers and diluents and their salts, and/or can be present in pharmaceutically acceptable formulations. Methods for the delivery of nucleic acid molecules are described in Akhtar et al., 1992, Trends Cell Bio., 2, 139; Delivery Strategies for Antisense Oligonucleotide Therapeutics, ed. Akhtar, 1995, Maurer et al., 1999, Mol. Membr. Biol., 16, 129-140; Hofland and Huang, 1999, Handb. Exp. Pharmacol., 137, 165-192; and Lee et al., 2000, ACS Symp. Ser., 752, 184-192, all of which are incorporated herein by reference. Beigelman et al., U.S. Pat. No. 6,395,713 and Sullivan et al., PCT WO 94/02595 further describe the general methods for delivery of nucleic acid molecules. These protocols can be utilized for the delivery of virtually any nucleic acid molecule. Nucleic acid molecules can be administered to cells by a variety of methods known to those of skill in the art, including, but not restricted to, encapsulation in liposomes, by iontophoresis, or by incorporation into other vehicles, such as biodegradable polymers, hydrogels, cyclodextrins (see for example Gonzalez et al., 1999, Bioconjugate Chem., 10, 1068-1074; Wang et al., International PCT publication Nos. WO 03/47518 and WO 03/46185), poly(lactic-co-glycolic)acid (PLGA) and PLCA microspheres (see for example US Patent 6,447,796 and US Patent Application Publication No. US 2002130430), biodegradable nanocapsules, and bioadhesive microspheres, or by proteinaceous vectors (O'Hare and Normand, International PCT Publication No. WO 00/53722). Alternatively, the nucleic acid/vehicle combination is locally delivered by direct injection or by use of an infusion pump. Direct injection of the nucleic acid molecules of the invention, whether subcutaneous, intramuscular, or intradermal, can take place using standard needle and syringe methodologies, or by needle-free technologies such as those described in Conry et al., 1999, Clin. Cancer Res., 5, 2330-2337 and Barry et al., International PCT Publication No. WO 99/31262. The molecules of the instant invention can be used as pharmaceutical agents. Pharmaceutical agents

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prevent, modulate the occurrence, or treat (alleviate a symptom to some extent, preferably all of the symptoms) of a disease state in a subject.

In another embodiment, the nucleic acid molecules of the invention can also be formulated or complexed with polyethyleneimine and derivatives thereof, such as polyethyleneimine-polyethyleneglycol-N-acetylgalactosamine (PEI-PEG-GAL) or polyethyleneimine-polyethyleneglycol-tri-N-acetylgalactosamine (PEI-PEG-triGAL) derivatives. In one embodiment, the nucleic acid molecules of the invention are formulated as described in United States Patent Application Publication No. 20030077829, incorporated by reference herein in its entirety.

In one embodiment, a siNA molecule of the invention is complexed with membrane disruptive agents such as those described in U.S. Patent Application Publication No. 20010007666, incorporated by reference herein in its entirety including the drawings. In another embodiment, the membrane disruptive agent or agents and the siNA molecule are also complexed with a cationic lipid or helper lipid molecule, such as those lipids described in U.S. Patent No. 6,235,310, incorporated by reference herein in its entirety including the drawings.

In one embodiment, a siNA molecule of the invention is complexed with delivery systems as described in U.S. Patent Application Publication No. 2003077829 and International PCT Publication Nos. WO 00/03683 and WO O2/087541, all incorporated by reference herein in their entirety including the drawings.

In one embodiment, the nucleic acid molecules of the invention are administered via pulmonary delivery, such as by inhalation of an aerosol or spray dried formulation administered by an inhalation device or nebulizer, providing rapid local uptake of the nucleic acid molecules into relevant pulmonary tissues. Solid particulate compositions containing respirable dry particles of micronized nucleic acid compositions can be prepared by grinding dried or lyophilized nucleic acid compositions, and then passing the micronized composition through, for example, a 400 mesh screen to break up or separate out large agglomerates. A solid particulate composition comprising the nucleic acid compositions of the invention can optionally contain a dispersant which serves to facilitate the formation of an aerosol as well as other therapeutic compounds. A suitable

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dispersant is lactose, which can be blended with the nucleic acid compound in any suitable ratio, such as a 1 to 1 ratio by weight.

Aerosols of liquid particles comprising a nucleic acid composition of the invention can be produced by any suitable means, such as with a nebulizer (see for example US 4,501,729). Nebulizers are commercially available devices which transform solutions or suspensions of an active ingredient into a therapeutic aerosol mist either by means of acceleration of a compressed gas, typically air or oxygen, through a narrow venturi orifice or by means of ultrasonic agitation. Suitable formulations for use in nebulizers comprise the active ingredient in a liquid carrier in an amount of up to 40% w/w preferably less than 20% w/w of the formulation. The carrier is typically water or a dilute aqueous alcoholic solution, preferably made isotonic with body fluids by the addition of, for example, sodium chloride or other suitable salts. Optional additives include preservatives if the formulation is not prepared sterile, for example, methyl hydroxybenzoate, anti-oxidants, flavorings, volatile oils, buffering agents and emulsifiers and other formulation surfactants. The aerosols of solid particles comprising the active composition and surfactant can likewise be produced with any solid particulate aerosol generator. Aerosol generators for administering solid particulate therapeutics to a subject produce particles which are respirable, as explained above, and generate a volume of aerosol containing a predetermined metered dose of a therapeutic composition at a rate suitable for human administration. One illustrative type of solid particulate aerosol generator is an insufflator. Suitable formulations for administration by insufflation include finely comminuted powders which can be delivered by means of an insufflator. In the insufflator, the powder, e.g., a metered dose thereof effective to carry out the treatments described herein, is contained in capsules or cartridges, typically made of gelatin or plastic, which are either pierced or opened in situ and the powder delivered by air drawn through the device upon inhalation or by means of a manually-operated pump. The powder employed in the insufflator consists either solely of the active ingredient or of a powder blend comprising the active ingredient, a suitable powder diluent, such as lactose, and an optional surfactant. The active ingredient typically comprises from 0.1 to 100 w/w of the formulation. A second type of illustrative aerosol generator comprises a metered dose inhaler. Metered dose inhalers are pressurized aerosol dispensers, typically containing a suspension or solution formulation of the active ingredient in a liquified

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propellant. During use these devices discharge the formulation through a valve adapted to deliver a metered volume to produce a fine particle spray containing the active ingredient. Suitable propellants include certain chlorofluorocarbon compounds, for example, dichlorodifluoromethane, trichlorofluoromethane, dichlorotetrafluoroethane and mixtures thereof. The formulation can additionally contain one or more co-solvents, for example, ethanol, emulsifiers and other formulation surfactants, such as oleic acid or sorbitan trioleate, anti-oxidants and suitable flavoring agents. Other methods for pulmonary delivery are described in, for example US Patent Application No. 20040037780, and US Patent Nos. 6,592,904; 6,582,728; 6,565,885.

In one embodiment, the invention features the use of methods to deliver the nucleic acid molecules of the instant invention to the central nervous system and/or peripheral nervous system. Experiments have demonstrated the efficient in vivo uptake of nucleic acids by neurons. As an example of local administration of nucleic acids to nerve cells, Sommer et al., 1998, Antisense Nuc. Acid Drug Dev., 8, 75, describe a study in which a 15mer phosphorothioate antisense nucleic acid molecule to c-fos is administered to rats microinjection into the brain. Antisense molecules labeled with tetramethylrhodamine-isothiocyanate (TRITC) or fluorescein isothiocyanate (FITC) were taken up by exclusively by neurons thirty minutes post-injection. A diffuse cytoplasmic staining and nuclear staining was observed in these cells. As an example of systemic administration of nucleic acid to nerve cells, Epa et al., 2000, Antisense Nuc. Acid Drug Dev., 10, 469, describe an in vivo mouse study in which beta-cyclodextrin-adamantaneoligonucleotide conjugates were used to target the p75 neurotrophin receptor in neuronally differentiated PC12 cells. Following a two week course of IP acliministration, pronounced uptake of p75 neurotrophin receptor antisense was observed in dorsal root ganglion (DRG) cells. In addition, a marked and consistent down-regulation of p75 was observed in DRG neurons. Additional approaches to the targeting of nucleic acid to neurons are described in Broaddus et al., 1998, J. Neurosurg., 88(4), 734; Karle et al., 1997, Eur. J. Pharmocol., 340(2/3), 153; Bannai et al., 1998, Brain Research, 784(1,2), 304; Rajakumar et al., 1997, Synapse, 26(3), 199; Wu-pong et al., 1999, BioPharm, 12(1), 32; Bannai et al., 1998, Brain Res. Protoc., 3(1), 83; Simantov et al., 1996, Neuroscience, 74(1), 39. Nucleic acid molecules of the invention are therefore amenable to delivery to and uptake by cells that express repeat expansion allelic variants for

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modulation of RE gene expression. The delivery of nucleic acid molecules of the invention, targeting RE is provided by a variety of different strategies. Traditional approaches to CNS delivery that can be used include, but are not limited to, intrathecal and intracerebroventricular administration, implantation of catheters and pumps, direct injection or perfusion at the site of injury or lesion, injection into the brain arterial system, or by chemical or osmotic opening of the blood-brain barrier. Other approaches can include the use of various transport and carrier systems, for example though the use of conjugates and biodegradable polymers. Furthermore, gene therapy approaches, for example as described in Kaplitt *et al.*, US 6,180,613 and Davidson, WO 04/013280, can be used to express nucleic acid molecules in the CNS.

In one embodiment, nucleic acid molecules of the invention are administered to the central nervous system (CNS) or peripheral nervous system (PNS). Experiments have demonstrated the efficient in vivo uptake of nucleic acids by neurons. As an example of local administration of nucleic acids to nerve cells, Sommer et al., 1998, Antisense Nuc. Acid Drug Dev., 8, 75, describe a study in which a 15mer phosphorothioate antisense nucleic acid molecule to c-fos is administered to rats via microinjection into the brain. Antisense molecules labeled with tetramethylrhodamine-isothiocyanate (TRITC) or fluorescein isothiocyanate (FITC) were taken up by exclusively by neurons thirty minutes post-injection. A diffuse cytoplasmic staining and nuclear staining was observed in these cells. As an example of systemic administration of nucleic acid to nerve cells, Epa et al., 2000, Antisense Nuc. Acid Drug Dev., 10, 469, describe an in vivo mouse study in which beta-cyclodextrin-adamantane-oligonucleotide conjugates were used to target the p75 neurotrophin receptor in neuronally differentiated PC12 cells. Following a two week course of IP administration, pronounced uptake of p75 neurotrophin receptor antisense was observed in dorsal root ganglion (DRG) cells. In addition, a marked and consistent down-regulation of p75 was observed in DRG neurons. Additional approaches to the targeting of nucleic acid to neurons are described in Broaddus et al., 1998, J. Neurosurg., 88(4), 734; Karle et al., 1997, Eur. J. Pharmocol., 340(2/3), 153; Bannai et al., 1998, Brain Research, 784(1,2), 304; Rajakumar et al., 1997, Synapse, 26(3), 199; Wu-pong et al., 1999, BioPharm, 12(1), 32; Bannai et al., 1998, Brain Res. Protoc., 3(1), 83; Simantov et al., 1996, Neuroscience,

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74(1), 39. Nucleic acid molecules of the invention are therefore amenable to delivery to and uptake by cells in the CNS and/or PNS.

The delivery of nucleic acid molecules of the invention to the CNS is provided by a variety of different strategies. Traditional approaches to CNS delivery that can be used include, but are not limited to, intrathecal and intracerebroventricular administration, implantation of catheters and pumps, direct injection or perfusion at the site of injury or lesion, injection into the brain arterial system, or by chemical or osmotic opening of the blood-brain barrier. Other approaches can include the use of various transport and carrier systems, for example though the use of conjugates and biodegradable polymers. Furthermore, gene therapy approaches, for example as described in Kaplitt *et al.*, US 6,180,613 and Davidson, WO 04/013280, can be used to express nucleic acid molecules in the CNS.

In one embodiment, delivery systems of the invention include, for example, aqueous and nonaqueous gels, creams, multiple emulsions, microemulsions, liposomes, ointments, aqueous and nonaqueous solutions, lotions, aerosols, hydrocarbon bases and powders, and can contain excipients such as solubilizers, permeation enhancers (e.g., fatty acids, fatty acid esters, fatty alcohols and amino acids), and hydrophilic polymers (e.g., polycarbophil and polyvinylpyrolidone). In one embodiment, the pharmaceutically acceptable carrier is a liposome or a transdermal enhancer. Examples of liposomes which can be used in this invention include the following: (1) CellFectin, 1:1.5 (M/M) liposome formulation of the cationic lipid N,NI,NII,NIII-tetramethyl-N,NI,NII,NIII-tetrapalmit-yspermine and dioleoyl phosphatidylethanolamine (DOPE) (GIBCO BRL); (2) Cytofectin GSV, 2:1 (M/M) liposome formulation of a cationic lipid and DOPE (Glen Research); (N-[1-(2,3-dioleoyloxy)-N,N,N-tri-methyl-ammoniummethylsulfate) (3) DOTAP (Boehringer Manheim); and (4) Lipofectamine, 3:1 (M/M) liposome formulation of the polycationic lipid DOSPA and the neutral lipid DOPE (GIBCO BRL).

In one embodiment, delivery systems of the invention include patches, tablets, suppositories, pessaries, gels and creams, and can contain excipients such as solubilizers and enhancers (e.g., propylene glycol, bile salts and amino acids), and other vehicles (e.g., polyethylene glycol, fatty acid esters and derivatives, and hydrophilic polymers such as hydroxypropylmethylcellulose and hyaluronic acid).

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In one embodiment, siNA molecules of the invention are formulated or complexed with polyethylenimine (e.g., linear or branched PEI) and/or polyethylenimine derivatives, including for example grafted PEIs such as galactose PEI, cholestero1 PEI, antibody derivatized PEI, and polyethylene glycol PEI (PEG-PEI) derivatives thereof (see for example Ogris *et al.*, 2001, *AAPA PharmSci*, 3, 1-11; Furgeson et al., 2003, Bioconjugate Chem., 14, 840-847; Kunath et al., 2002, Phramaceutical Research, 19, 810-817; Choi et al., 2001, Bull. Korean Chem. Soc., 22, 46-52; Bettinger et al., 1999, Bioconjugate Chem., 10, 558-561; Peterson et al., 2002, Bioconjugate Chem., 13, 845-854; Erbacher et al., 1999, Journal of Gene Medicine Preprint, 1, 1-18; Godbey et al., 1999., PNAS USA, 96, 5177-5181; Godbey et al., 1999, Journal of Controlled Release, 60, 149-160; Diebold et al., 1999, Journal of Biological Chemistry, 274, 19087-19094; Thomas and Klibanov, 2002, PNAS USA, 99, 14640-14645; and Sagara, US 6,586,524, incorporated by reference herein.

In one embodiment, a siNA molecule of the invention comprises a bioconjugate, for example a nucleic acid conjugate as described in Vargeese et al., USSN 10/427,160, filed April 30, 2003; US 6,528,631; US 6,335,434; US 6, 235,886; US 6,153,737; US 5,214,136; US 5,138,045, all incorporated by reference herein.

Thus, the invention features a pharmaceutical composition comprising one or more nucleic acid(s) of the invention in an acceptable carrier, such as a stabilizer, buffer, and the like. The polynucleotides of the invention can be administered (e.g., RNA, DNA or protein) and introduced to a subject by any standard means, with or without stabilizers, buffers, and the like, to form a pharmaceutical composition. When it is desired to use a liposome delivery mechanism, standard protocols for formation of liposomes can be followed. The compositions of the present invention can also be formulated and used as creams, gels, sprays, oils and other suitable compositions for topical, dermal, or transdermal administration as is known in the art.

The present invention also includes pharmaceutically acceptable formulations of the compounds described. These formulations include salts of the above compounds, e.g., acid addition salts, for example, salts of hydrochloric, hydrobromic, acetic acid, and benzene sulfonic acid.

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A pharmacological composition or formulation refers to a composition or formulation in a form suitable for administration, e.g., systemic or local administration, into a cell or subject, including for example a human. Suitable forms, in part, depend upon the use or the route of entry, for example oral, transdermal, or by injection. Such forms should not prevent the composition or formulation from reaching a target cell (i.e., a cell to which the negatively charged nucleic acid is desirable for delivery). For example, pharmacological compositions injected into the blood stream should be soluble. Other factors are known in the art, and include considerations such as toxicity and forms that prevent the composition or formulation from exerting its effect.

In one embodiment, siNA molecules of the invention are administered to a subject by systemic administration in a pharmaceutically acceptable composition or formulation. By "systemic administration" is meant in vivo systemic absorption or accumulation of drugs in the blood stream followed by distribution throughout the entire body. Administration routes that lead to systemic absorption include, without limitation: intravenous, subcutaneous, intraperitoneal, inhalation, oral, intrapulmonary and intramuscular. Each of these administration routes exposes the siNA molecules of the invention to an accessible diseased tissue. The rate of entry of a drug into the circulation has been shown to be a function of molecular weight or size. The use of a liposome or other drug carrier comprising the compounds of the instant invention can potentially localize the drug, for example, in certain tissue types, such as the tissues of the reticular endothelial system (RES). A liposome formulation that can facilitate the association of drug with the surface of cells, such as, lymphocytes and macrophages is also useful. This approach can provide enhanced delivery of the drug to target cells by taking advantage of the specificity of macrophage and lymphocyte immune recognition of abnormal cells, such as cancer cells.

By "pharmaceutically acceptable formulation" or "pharmaceutically acceptable composition" is meant, a composition or formulation that allows for the effective distribution of the nucleic acid molecules of the instant invention in the physical location most suitable for their desired activity. Non-limiting examples of agents suitable for formulation with the nucleic acid molecules of the instant invention include: P-glycoprotein inhibitors (such as Pluronic P85),; biodegradable polymers, such as poly

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(DL-lactide-coglycolide) microspheres for sustained release delivery (Emerich, DF et a 1, 1999, Cell Transplant, 8, 47-58); and loaded nanoparticles, such as those made of polybutylcyanoacrylate. Other non-limiting examples of delivery strategies for the nucleic acid molecules of the instant invention include material described in Boado et al., 1998, J. Pharm. Sci., 87, 1308-1315; Tyler et al., 1999, FEBS Lett., 421, 280-284; Pardridge et al., 1995, PNAS USA., 92, 5592-5596; Boado, 1995, Adv. Drug Delivery Rev., 15, 73-107; Aldrian-Herrada et al., 1998, Nucleic Acids Res., 26, 4910-4916; and Tyler et al., 1999, PNAS USA., 96, 7053-7058.

The invention also features the use of the composition comprising surfacemodified liposomes containing poly (ethylene glycol) lipids (PEG-modified, or longcirculating liposomes or stealth liposomes). These formulations offer a method for increasing the accumulation of drugs in target tissues. This class of drug carriers resists opsonization and elimination by the mononuclear phagocytic system (MPS or RES), thereby enabling longer blood circulation times and enhanced tissue exposure for the encapsulated drug (Lasic et al. Chem. Rev. 1995, 95, 2601-2627; Ishiwata et al., Chem. Pharm. Bull. 1995, 43, 1005-1011). Such liposomes have been shown to accumulate selectively in tumors, presumably by extravasation and capture in the neovascularized target tissues (Lasic et al., Science 1995, 267, 1275-1276; Oku et al., 1995, Biochinz, Biophys. Acta, 1238, 86-90). The long-circulating liposomes enhance the pharmacokinetics and pharmacodynamics of DNA and RNA, particularly compared to conventional cationic liposomes which are known to accumulate in tissues of the MPS (Liu et al., J. Biol. Chem. 1995, 42, 24864-24870; Choi et al., International PCT Publication No. WO 96/10391; Ansell et al., International PCT Publication No. WO 96/10390; Holland et al., International PCT Publication No. WO 96/10392). Longcirculating liposomes are also likely to protect drugs from nuclease degradation to a greater extent compared to cationic liposomes, based on their ability to avoid accumulation in metabolically aggressive MPS tissues such as the liver and spleen.

The present invention also includes compositions prepared for storage or administration that include a pharmaceutically effective amount of the desired compounds in a pharmaceutically acceptable carrier or diluent. Acceptable carriers or diluents for therapeutic use are well known in the pharmaceutical art, and are described,

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for example, in *Remington's Pharmaceutical Sciences*, Mack Publishing Co. (A.R. Gennaro edit. 1985), hereby incorporated by reference herein. For example, preservatives, stabilizers, dyes and flavoring agents can be provided. These include sodium benzoate, sorbic acid and esters of *p*-hydroxybenzoic acid. In addition, antioxidants and suspending agents can be used.

A pharmaceutically effective dose is that dose required to prevent, inhibit the occurrence, or treat (alleviate a symptom to some extent, preferably all of the symptoms) of a disease state. The pharmaceutically effective dose depends on the type of disease, the composition used, the route of administration, the type of mammal being treated, the physical characteristics of the specific mammal under consideration, concurrent medication, and other factors that those skilled in the medical arts will recognize. Generally, an amount between 0.1 mg/kg and 100 mg/kg body weight/day of active ingredients is administered dependent upon potency of the negatively charged polymer.

The nucleic acid molecules of the invention and formulations thereof can be administered orally, topically, parenterally, by inhalation or spray, or rectally in dosage unit formulations containing conventional non-toxic pharmaceutically acceptable carriers, adjuvants and/or vehicles. The term parenteral as used herein includes percutaneous, subcutaneous, intravascular (e.g., intravenous), intramuscular, or intrathecal injection or infusion techniques and the like. In addition, there is provided a pharmaceutical formulation comprising a nucleic acid molecule of the invention and a pharmaceutically acceptable carrier. One or more nucleic acid molecules of the invention can be present in association with one or more non-toxic pharmaceutically acceptable carriers and/or diluents and/or adjuvants, and if desired other active ingredients. The pharmaceutical compositions containing nucleic acid molecules of the invention can be in a form suitable for oral use, for example, as tablets, troches, lozenges, aqueous or oily suspensions, dispersible powders or granules, emulsion, hard or soft capsules, or syrups or elixirs.

Compositions intended for oral use can be prepared according to any method known to the art for the manufacture of pharmaceutical compositions and such compositions can contain one or more such sweetening agents, flavoring agents, coloring agents or preservative agents in order to provide pharmaceutically elegant and palatable

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preparations. Tablets contain the active ingredient in admixture with non-toxic pharmaceutically acceptable excipients that are suitable for the manufacture of tablets. These excipients can be, for example, inert diluents; such as calcium carbonate, sodium carbonate, lactose, calcium phosphate or sodium phosphate; granulating and disintegrating agents, for example, corn starch, or alginic acid; binding agents, for example starch, gelatin or acacia; and lubricating agents, for example magnesium stearate, stearic acid or talc. The tablets can be uncoated or they can be coated by known techniques. In some cases such coatings can be prepared by known techniques to delay disintegration and absorption in the gastrointestinal tract and thereby provide a sustained action over a longer period. For example, a time delay material such as glyceryl monosterate or glyceryl distearate can be employed.

Formulations for oral use can also be presented as hard gelatin capsules wherein the active ingredient is mixed with an inert solid diluent, for example, calcium carbonate, calcium phosphate or kaolin, or as soft gelatin capsules wherein the active ingredient is mixed with water or an oil medium, for example peanut oil, liquid paraffin or olive oil.

Aqueous suspensions contain the active materials in a mixture with excipients suitable for the manufacture of aqueous suspensions. Such excipients are suspending agents, for example sodium carboxymethylcellulose, methylcellulose, hydropropylmethylcellulose, sodium alginate, polyvinylpyrrolidone, gum tragacanth and gum acacia; dispersing or wetting agents can be a naturally-occurring phosphatide, for example, lecithin, or condensation products of an alkylene oxide with fatty acids, for example polyoxyethylene stearate, or condensation products of ethylene oxide with long chain aliphatic alcohols, for example heptadecaethyleneoxycetanol, or condensation products of ethylene oxide with partial esters derived from fatty acids and a hexitol such as polyoxyethylene sorbitol monooleate, or condensation products of ethylene oxide with partial esters derived from fatty acids and hexitol anhydrides, for example polyethylene The aqueous suspensions can also contain one or more sorbitan monooleate. preservatives, for example ethyl, or n-propyl p-hydroxybenzoate, one or more coloring agents, one or more flavoring agents, and one or more sweetening agents, such as sucrose or saccharin.

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Oily suspensions can be formulated by suspending the active ingredients in a vegetable oil, for example arachis oil, olive oil, sesame oil or coconut oil, or in a mineral oil such as liquid paraffin. The oily suspensions can contain a thickening agent, for example beeswax, hard paraffin or cetyl alcohol. Sweetening agents and flavoring agents can be added to provide palatable oral preparations. These compositions can be preserved by the addition of an anti-oxidant such as ascorbic acid

Dispersible powders and granules suitable for preparation of an aqueous suspension by the addition of water provide the active ingredient in admixture with a dispersing or wetting agent, suspending agent and one or more preservatives. Suitable dispersing or wetting agents or suspending agents are exemplified by those already mentioned above. Additional excipients, for example sweetening, flavoring and coloring agents, can also be present.

Pharmaceutical compositions of the invention can also be in the form of oil-in-water emulsions. The oily phase can be a vegetable oil or a mineral oil or mixtures of these. Suitable emulsifying agents can be naturally-occurring gums, for example gum acacia or gum tragacanth, naturally-occurring phosphatides, for example soy bean, lecithin, and esters or partial esters derived from fatty acids and hexitol, anhydrides, for example sorbitan monooleate, and condensation products of the said partial esters with ethylene oxide, for example polyoxyethylene sorbitan monooleate. The emulsions can also contain sweetening and flavoring agents.

Syrups and elixirs can be formulated with sweetening agents, for example glycerol, propylene glycol, sorbitol, glucose or sucrose. Such formulations can also contain a demulcent, a preservative and flavoring and coloring agents. The pharmaceutical compositions can be in the form of a sterile injectable aqueous or oleaginous suspension. This suspension can be formulated according to the known art using those suitable dispersing or wetting agents and suspending agents that have been mentioned above. The sterile injectable preparation can also be a sterile injectable solution or suspension in a non-toxic parentally acceptable diluent or solvent, for example as a solution in 1,3-butanediol. Among the acceptable vehicles and solvents that can be employed are water, Ringer's solution and isotonic sodium chloride solution. In addition, sterile, fixed oils are conventionally employed as a solvent or suspending medium. For this purpose, any

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bland fixed oil can be employed including synthetic mono-or diglycerides. In addition, fatty acids such as oleic acid find use in the preparation of injectables.

The nucleic acid molecules of the invention can also be administered in the form of suppositories, e.g., for rectal administration of the drug. These compositions can be prepared by mixing the drug with a suitable non-irritating excipient that is solid at ordinary temperatures but liquid at the rectal temperature and will therefore melt in the rectum to release the drug. Such materials include cocoa butter and polyethylene glycols.

Nucleic acid molecules of the invention can be administered parenterally in a sterile medium. The drug, depending on the vehicle and concentration used, can either be suspended or dissolved in the vehicle. Advantageously, adjuvants such as local anesthetics, preservatives and buffering agents can be dissolved in the vehicle.

Dosage levels of the order of from about 0.1 mg to about 140 mg per kilogram of body weight per day are useful in the treatment of the above-indicated conditions (about 0.5 mg to about 7 g per subject per day). The amount of active ingredient that can be combined with the carrier materials to produce a single dosage form varies depending upon the host treated and the particular mode of administration. Dosage unit forms generally contain between from about 1 mg to about 500 mg of an active ingredient.

It is understood that the specific dose level for any particular subject depends upon a variety of factors including the activity of the specific compound employed, the age, body weight, general health, sex, diet, time of administration, route of administration, and rate of excretion, drug combination and the severity of the particular disease undergoing therapy.

For administration to non-human animals, the composition can also be added to the animal feed or drinking water. It can be convenient to formulate the animal feed and drinking water compositions so that the animal takes in a therapeutically appropriate quantity of the composition along with its diet. It can also be convenient to present the composition as a premix for addition to the feed or drinking water.

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The nucleic acid molecules of the present invention can also be administered to a subject in combination with other therapeutic compounds to increase the overall therapeutic effect. The use of multiple compounds to treat an indication can increase the beneficial effects while reducing the presence of side effects.

In one embodiment, the invention comprises compositions suitable for administering nucleic acid molecules of the invention to specific cell types. For example, the asialoglycoprotein receptor (ASGPr) (Wu and Wu, 1987, J. Biol. Chem. 262, 4429-4432) is unique to hepatocytes and binds branched galactose-terminal glycoproteins, such as asialoorosomucoid (ASOR). In another example, the folate receptor is overexpressed in many cancer cells. Binding of such glycoproteins, synthetic glycoconjugates, or folates to the receptor takes place with an affinity that strongly depends on the degree of branching of the oligosaccharide chain, for example, triatennary structures are bound with greater affinity than biatenarry or monoatennary chains (Baenziger and Fiete, 1980, Cell, 22, 611-620; Connolly et al., 1982, J. Biol. Chem., 257, 939-945). Lee and Lee, 1987, Glycoconjugate J., 4, 317-328, obtained this high specificity through the use of N-acetyl-D-galactosamine as the carbohydrate moiety, which has higher affinity for the receptor, compared to galactose. This "clustering effect" has also been described for the binding and uptake of mannosyl-terminating glycoproteins or glycoconjugates (Ponpipom et al., 1981, J. Med. Chem., 24, 1388-1395). The use of galactose, galactosamine, or folate based conjugates to transport exogenous compounds across cell membranes can provide a targeted delivery approach to, for example, the treatment of liver disease, cancers of the liver, or other cancers. The use of bioconjugates can also provide a reduction in the required dose of therapeutic compounds required for treatment. Furthermore, therapeutic bioavailability, pharmacodynamics, and pharmacokinetic parameters can be modulated through the use of nucleic acid bioconjugates of the invention. Non-limiting examples of such bioconjugates are described in Vargeese et al., USSN 10/201,394, filed August 13, 2001; and Matulic-Adamic et al., USSN 60/362,016, filed March 6, 2002.

Alternatively, certain siNA molecules of the instant invention can be expressed within cells from eukaryotic promoters (e.g., Izant and Weintraub, 1985, Science, 229, 345; McGarry and Lindquist, 1986, Proc. Natl. Acad. Sci., USA 83, 399; Scanlon et al.,

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1991, Proc. Natl. Acad. Sci. USA, 88, 10591-5; Kashani-Sabet et al., 1992, Antisense Res. Dev., 2, 3-15; Dropulic et al., 1992, J. Virol., 66, 1432-41; Weerasinghe et al., 1991, J. Virol., 65, 5531-4; Ojwang et al., 1992, Proc. Natl. Acad. Sci. USA, 89, 10802-6; Chen et al., 1992, Nucleic Acids Res., 20, 4581-9; Sarver et al., 1990 Science, 247, 1222-1225; Thompson et al., 1995, Nucleic Acids Res., 23, 2259; Good et al., 1997, Gene Therapy, 4, 45. Those skilled in the art realize that any nucleic acid can be expressed in eukaryotic cells from the appropriate DNA/RNA vector. The activity of such nucleic acids can be augmented by their release from the primary transcript by a enzymatic nucleic acid (Draper et al., PCT WO 93/23569, and Sullivan et al., PCT WO 94/02595; Ohkawa et al., 1992, Nucleic Acids Symp. Ser., 27, 15-6; Taira et al., 1991, Nucleic Acids Res., 19, 5125-30; Ventura et al., 1993, Nucleic Acids Res., 21, 3249-55; Chowrira et al., 1994, J. Biol. Chem., 269, 25856.

In another aspect of the invention, RNA molecules of the present invention can be expressed from transcription units (see for example Couture et al., 1996, TIG., 12, 510) inserted into DNA or RNA vectors. The recombinant vectors can be DNA plasmids or viral vectors. siNA expressing viral vectors can be constructed based on, but not limited to, adeno-associated virus, retrovirus, adenovirus, or alphavirus. In another embodiment, pol III based constructs are used to express nucleic acid molecules of the invention (see for example Thompson, U.S. Pats. Nos. 5,902,880 and 6,146,886). The recombinant vectors capable of expressing the siNA molecules can be delivered as described above, and persist in target cells. Alternatively, viral vectors can be used that provide for transient expression of nucleic acid molecules. Such vectors can be repeatedly administered as necessary. Once expressed, the siNA molecule interacts with the target mRNA and generates an RNAi response. Delivery of siNA molecule expressing vectors can be systemic, such as by intravenous or intra-muscular administration, by administration to target cells ex-planted from a subject followed by reintroduction into the subject, or by any other means that would allow for introduction into the desired target cell (for a review see Couture et al., 1996, TIG., 12, 510).

In one aspect the invention features an expression vector comprising a nucleic acid sequence encoding at least one siNA molecule of the instant invention. The expression vector can encode one or both strands of a siNA duplex, or a single self-complementary

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strand that self hybridizes into a siNA duplex. The nucleic acid sequences encoding the siNA molecules of the instant invention can be operably linked in a manner that allows expression of the siNA molecule (see for example Paul *et al.*, 2002, *Nature Biotechnology*, 19, 505; Miyagishi and Taira, 2002, *Nature Biotechnology*, 19, 497; Lee *et al.*, 2002, *Nature Biotechnology*, 19, 500; and Novina *et al.*, 2002, *Nature Medicine*, advance online publication doi:10.1038/nm725).

In another aspect, the invention features an expression vector comprising: a) a transcription initiation region (e.g., eukaryotic pol I, II or III initiation region); b) a transcription termination region (e.g., eukaryotic pol I, II or III termination region); and c) a nucleic acid sequence encoding at least one of the siNA molecules of the instant invention, wherein said sequence is operably linked to said initiation region and said termination region in a manner that allows expression and/or delivery of the siNA molecule. The vector can optionally include an open reading frame (ORF) for a protein operably linked on the 5' side or the 3'-side of the sequence encoding the siNA of the invention; and/or an intron (intervening sequences).

Transcription of the siNA molecule sequences can be driven from a promoter for eukaryotic RNA polymerase I (pol I), RNA polymerase II (pol II), or RNA polymerase III (pol III). Transcripts from pol II or pol III promoters are expressed at high levels in all cells; the levels of a given pol II promoter in a given cell type depends on the nature of the gene regulatory sequences (enhancers, silencers, etc.) present nearby. Prokaryotic RNA polymerase promoters are also used, providing that the prokaryotic RNA polymerase enzyme is expressed in the appropriate cells (Elroy-Stein and Moss, 1990, Proc. Natl. Acad. Sci. U S A, 87, 6743-7; Gao and Huang 1993, Nucleic Acids Res., 21, 2867-72; Lieber et al., 1993, Methods Enzymol., 217, 47-66; Zhou et al., 1990, Mol. Cell. Biol., 10, 4529-37). Several investigators have demonstrated that nucleic acid molecules expressed from such promoters can function in mammalian cells (e.g. Kashani-Sabet et al., 1992, Antisense Res. Dev., 2, 3-15; Ojwang et al., 1992, Proc. Natl. Acad. Sci. U S A, 89, 10802-6; Chen et al., 1992, Nucleic Acids Res., 20, 4581-9; Yu et al., 1993, Proc. Natl. Acad. Sci. USA, 90, 6340-4; L'Huillier et al., 1992, EMBO J., 11, 4411-8; Lisziewicz et al., 1993, Proc. Natl. Acad. Sci. U. S. A, 90, 8000-4; Thompson et al., 1995, Nucleic Acids Res., 23, 2259; Sullenger & Cech, 1993, Science,

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262, 1566). More specifically, transcription units such as the ones derived from genes encoding U6 small nuclear (snRNA), transfer RNA (tRNA) and adenovirus VA RNA are useful in generating high concentrations of desired RNA molecules such as siNA in cells (Thompson et al., supra; Couture and Stinchcomb, 1996, supra; Noonberg et al., 1994, Nucleic Acid Res., 22, 2830; Noonberg et al., U.S. Pat. No. 5,624,803; Good et al., 1997, Gene Ther., 4, 45; Beigelman et al., International PCT Publication No. WO 96/18736. The above siNA transcription units can be incorporated into a variety of vectors for introduction into mammalian cells, including but not restricted to, plasmid DNA vectors, viral DNA vectors (such as adenovirus or adeno-associated virus vectors), or viral RNA vectors (such as retroviral or alphavirus vectors) (for a review see Couture and Stinchcomb, 1996, supra).

In another aspect the invention features an expression vector comprising a nucleic acid sequence encoding at least one of the siNA molecules of the invention in a manner that allows expression of that siNA molecule. The expression vector comprises in one embodiment; a) a transcription initiation region; b) a transcription termination region; and c) a nucleic acid sequence encoding at least one strand of the siNA molecule, wherein the sequence is operably linked to the initiation region and the termination region in a manner that allows expression and/or delivery of the siNA molecule.

In another embodiment the expression vector comprises: a) a transcription initiation region; b) a transcription termination region; c) an open reading frame; and d) a nucleic acid sequence encoding at least one strand of a siNA molecule, wherein the sequence is operably linked to the 3'-end of the open reading frame and wherein the sequence is operably linked to the initiation region, the open reading frame and the termination region in a manner that allows expression and/or delivery of the siNA molecule. In yet another embodiment, the expression vector comprises: a) a transcription initiation region; b) a transcription termination region; c) an intron; and d) a nucleic acid sequence encoding at least one siNA molecule, wherein the sequence is operably linked to the initiation region, the intron and the termination region in a manner which allows expression and/or delivery of the nucleic acid molecule.

In another embodiment, the expression vector comprises: a) a transcription initiation region; b) a transcription termination region; c) an intron; d) an open reading

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frame; and e) a nucleic acid sequence encoding at least one strand of a siNA molecule, wherein the sequence is operably linked to the 3'-end of the open reading frame and wherein the sequence is operably linked to the initiation region, the intron, the open reading frame and the termination region in a manner which allows expression and/or delivery of the siNA molecule.

Expressed pseudogene target biology and biochemistry

Pseudogenes have been considered as nonfunctional sequences of genomic DNA originally derived from functional genes. The assumption follows that all pseudogene mutations are selectively neutral and have equal probability to become fixed in the population. However, pseudogenes that have been suitably investigated often exhibit functional roles, such as gene expression, gene regulation, generation of genetic (e.g., antibody, antigenic, and other) diversity (see for example Balakirev et al., 2003, Annu. Rev. Genet., 37, 123-51). A pseudogene is an evolutionary conserved gene copy that does not produce a functional, full-length protein. The human genome is estimated to contain upwards of 20,000 pseudogenes. Although much effort has been devoted to understanding the function of such pseudogenes, their biological roles remain largely unknown. Some psuedogenes that are expressed have been associated with disease or developmental conditions. For example, Hirotsune et al., 2003, Nature, 423, 91-96, report the role of an expressed pseudogene, specifically regulation of messenger-RNA stability, in a transgene-insertion mouse mutant exhibiting polycystic kidneys and bone deformity. The transgene was integrated into the vicinity of the expressing pseudogene of Makorin1, referred to as Makorin1-p1. This insertion attenuated transcription of Makorin1-p1, resulting in destabilization of Makorin1 mRNA in trans by way of a cisacting RNA decay element within the 5' region of Makorin1 that is homologous between Makorin1 and Makorin1-p1. Either Makorin1 or Makorin1-p1 transgenes could rescue the expressed pseudogene phenotypes. These findings demonstrate a specific regulatory role of an expressed pseudogene, and point to the functional significance of non-coding RNAs (Hirotsune et al., 2003, Nature, 423, 91-96). In a subsequent study, it was determined that 2-3% of human processed pseudogenes are expressed (Yano et al., 2004, J. Mol. Med., 82(7), 414-22). Other reports of expressed pseudogenes are described in, for example Kandouz et al., 2004, Oncogene, 23, 4763-70 (Connexin43); Yoshida et al.,

2003, Hum Cell, 16, 65-72 (Makorin1); and Perez Jurado et al., 1998, Hum Mol Genet, 7, 325-34).

Examples:

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The following are non-limiting examples showing the selection, isolation, synthesis and activity of nucleic acids of the instant invention.

Example 1: Tandem synthesis of siNA constructs

Exemplary siNA molecules of the invention are synthesized in tandem using a cleavable linker, for example, a succinyl-based linker. Tandem synthesis as described herein is followed by a one-step purification process that provides RNAi molecules in high yield. This approach is highly amenable to siNA synthesis in support of high throughput RNAi screening, and can be readily adapted to multi-column or multi-well synthesis platforms.

After completing a tandem synthesis of a siNA oligo and its complement in which the 5'-terminal dimethoxytrityl (5'-O-DMT) group remains intact (trityl on synthesis), the oligonucleotides are deprotected as described above. Following deprotection, the siNA sequence strands are allowed to spontaneously hybridize. This hybridization yields a duplex in which one strand has retained the 5'-O-DMT group while the complementary strand comprises a terminal 5'-hydroxyl. The newly formed duplex behaves as a single molecule during routine solid-phase extraction purification (Trityl-On purification) even though only one molecule has a dimethoxytrityl group. Because the strands form a stable duplex, this dimethoxytrityl group (or an equivalent group, such as other trityl groups or other hydrophobic moieties) is all that is required to purify the pair of oligos, for example, by using a C18 cartridge.

Standard phosphoramidite synthesis chemistry is used up to the point of introducing a tandem linker, such as an inverted deoxy abasic succinate or glyceryl succinate linker (see Figure 1) or an equivalent cleavable linker. A non-limiting example of linker coupling conditions that can be used includes a hindered base such as diisopropylethylamine (DIPA) and/or DMAP in the presence of an activator reagent such as Bromotripyrrolidinophosphoniumhexaflurorophosphate (PyBrOP). After the linker is

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coupled, standard synthesis chemistry is utilized to complete synthesis of the second sequence leaving the terminal the 5'-O-DMT intact. Following synthesis, the resulting oligonucleotide is deprotected according to the procedures described herein and quenched with a suitable buffer, for example with 50mM NaOAc or 1.5M NH₄H₂CO₃.

Purification of the siNA duplex can be readily accomplished using solid phase extraction, for example, using a Waters C18 SepPak 1g cartridge conditioned with 1 column volume (CV) of acetonitrile, 2 CV H2O, and 2 CV 50mM NaOAc. The sample is loaded and then washed with 1 CV H2O or 50mM NaOAc. Failure sequences are eluted with 1 CV 14% ACN (Aqueous with 50mM NaOAc and 50mM NaCl). The column is then washed, for example with 1 CV H2O followed by on-column detritylation, for example by passing 1 CV of 1% aqueous trifluoroacetic acid (TFA) over the column, then adding a second CV of 1% aqueous TFA to the column and allowing to stand for approximately 10 minutes. The remaining TFA solution is removed and the column washed with H20 followed by 1 CV 1M NaCl and additional H2O. The siNA duplex product is then eluted, for example, using 1 CV 20% aqueous CAN.

Figure 2 provides an example of MALDI-TOF mass spectrometry analysis of a purified siNA construct in which each peak corresponds to the calculated mass of an individual siNA strand of the siNA duplex. The same purified siNA provides three peaks when analyzed by capillary gel electrophoresis (CGE), one peak presumably corresponding to the duplex siNA, and two peaks presumably corresponding to the separate siNA sequence strands. Ion exchange HPLC analysis of the same siNA contract only shows a single peak. Testing of the purified siNA construct using a luciferase reporter assay described below demonstrated the same RNAi activity compared to siNA constructs generated from separately synthesized oligonucleotide sequence strands.

Example 2: Identification of potential siNA target sites in any RNA sequence

The sequence of an RNA target of interest, such as a viral or human mRNA transcript, is screened for target sites, for example by using a computer folding algorithm. In a non-limiting example, the sequence of a gene or RNA gene transcript derived from a database, such as Genbank, is used to generate siNA targets having

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complementarity to the target. Such sequences can be obtained from a database, or can be determined experimentally as known in the art. Target sites that are known, for example, those target sites determined to be effective target sites based on studies with other nucleic acid molecules, for example ribozymes or antisense, or those targets known to be associated with a disease or condition such as those sites containing mutations or deletions, can be used to design siNA molecules targeting those sites. parameters can be used to determine which sites are the most suitable target sites within the target RNA sequence. These parameters include but are not limited to secondary or tertiary RNA structure, the nucleotide base composition of the target sequence, the degree of homology between various regions of the target sequence, or the relative position of the target sequence within the RNA transcript. Based on these determinations, any number of target sites within the RNA transcript can be chosen to screen siNA molecules for efficacy, for example by using in vitro RNA cleavage assays, cell culture, or animal models. In a non-limiting example, anywhere from 1 to 1000 target sites are chosen within the transcript based on the size of the siNA construct to be used. High throughput screening assays can be developed for screening siNA molecules using methods known in the art, such as with multi-well or multi-plate assays to determine efficient reduction in target gene expression.

Example 3: Selection of siNA molecule target sites in a RNA

The following non-limiting steps can be used to carry out the selection of siNAs targeting a given gene sequence or transcript.

- 1. The target sequence is parsed in silico into a list of all fragments or subsequences of a particular length, for example 23 nucleotide fragments, contained within the target sequence. This step is typically carried out using a custom Perl script, but commercial sequence analysis programs such as Oligo, MacVector, or the GCG Wisconsin Package can be employed as well.
- 2. In some instances the siNAs correspond to more than one target sequence; such would be the case for example in targeting different transcripts of the same gene, targeting different transcripts of more than one gene, or for targeting both the human gene and an animal homolog. In this case, a subsequence list of a particular length is

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generated for each of the targets, and then the lists are compared to find matching sequences in each list. The subsequences are then ranked according to the number of target sequences that contain the given subsequence; the goal is to find subsequences that are present in most or all of the target sequences. Alternately, the ranking can identify subsequences that are unique to a target sequence, such as a mutant target sequence. Such an approach would enable the use of siNA to target specifically the mutant sequence and not effect the expression of the normal sequence.

- 3. In some instances the siNA subsequences are absent in one or more sequences while present in the desired target sequence; such would be the case if the siNA targets a gene with a paralogous family member that is to remain untargeted. As in case 2 above, a subsequence list of a particular length is generated for each of the targets, and then the lists are compared to find sequences that are present in the target gene but are absent in the untargeted paralog.
- 4. The ranked siNA subsequences can be further analyzed and ranked according to GC content. A preference can be given to sites containing 30-70% GC, with a further preference to sites containing 40-60% GC.
 - The ranked siNA subsequences can be further analyzed and ranked according to selffolding and internal hairpins. Weaker internal folds are preferred; strong hairpin structures are to be avoided.
- 6. The ranked siNA subsequences can be further analyzed and ranked according to whether they have runs of GGG or CCC in the sequence. GGG (or even more Gs) in either strand can make oligonucleotide synthesis problematic and can potentially interfere with RNAi activity, so it is avoided whenever better sequences are available. CCC is searched in the target strand because that will place GGG in the antisense strand.
 - 7. The ranked siNA subsequences can be further analyzed and ranked according to whether they have the dinucleotide UU (uridine dinucleotide) on the 3'-end of the sequence, and/or AA on the 5'-end of the sequence (to yield 3' UU on the antisense sequence). These sequences allow one to design siNA molecules with terminal TT thymidine dinucleotides.

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8. Four or five target sites are chosen from the ranked list of subsequences as described above. For example, in subsequences having 23 nucleotides, the right 21 nucleotides of each chosen 23-mer subsequence are then designed and synthesized for the upper (sense) strand of the siNA duplex, while the reverse complement of the left 21 nucleotides of each chosen 23-mer subsequence are then designed and synthesized for the lower (antisense) strand of the siNA duplex. If terminal TT residues are desired for the sequence (as described in paragraph 7), then the two 3' terminal nucleotides of both the sense and antisense strands are replaced by TT prior to synthesizing the oligos.

- 9. The siNA molecules are screened in an *in vitro*, cell culture or animal model system to identify the most active siNA molecule or the most preferred target site within the target RNA sequence.
 - 10. Other design considerations can be used when selecting target nucleic acid sequences, see, for example, Reynolds *et al.*, 2004, *Nature Biotechnology Advanced Online Publication*, 1 February 2004, doi:10.1038/nbt936 and Ui-Tei et al., 2004, Nucleic Acids Research, 32, doi:10.1093/nar/gkh247.

In an alternate approach, a pool of siNA constructs specific to a target polynucloetide sequence is used to screen for target sites in cells expressing target RNA. The general strategy used in this approach is shown in **Figure 9**. Cells expressing target RNA are transfected with the pool of siNA constructs and cells that demonstrate a phenotype associated with target inhibition are sorted. The pool of siNA constructs can be expressed from transcription cassettes inserted into appropriate vectors (see for example **Figure 7** and **Figure 8**). The siNA from cells demonstrating a positive phenotypic change (e.g., decreased proliferation, decreased RNA levels, decreased protein expression), are sequenced to determine the most suitable target site(s) within the target RNA sequence.

Example 4: Targeted siNA design

siNA target sites were chosen by analyzing sequences of the target polynucleotide and optionally prioritizing the target sites on the basis of folding (structure of any given sequence analyzed to determine siNA accessibility to the target), by using a library of

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siNA molecules as described in Example 3, or alternately by using an *in vitro* siNA system as described in Example 6 herein. siNA molecules are designed that could bind each target and are optionally individually analyzed by computer folding to assess whether the siNA molecule can interact with the target sequence. Varying the length of the siNA molecules can be chosen to optimize activity. Generally, a sufficient number of complementary nucleotide bases are chosen to bind to, or otherwise interact with, the target RNA, but the degree of complementarity can be modulated to accommodate siNA duplexes or varying length or base composition. By using such methodologies, siNA molecules can be designed to target sites within any known RNA sequence, for example those RNA sequences corresponding to the any gene transcript.

Chemically modified siNA constructs are designed to provide nuclease stability for systemic administration in vivo and/or improved pharmacokinetic, localization, and delivery properties while preserving the ability to mediate RNAi activity. Chemical modifications as described herein are introduced synthetically using synthetic methods described herein and those generally known in the art. The synthetic siNA constructs are then assayed for nuclease stability in serum and/or cellular/tissue extracts (e.g. liver extracts). The synthetic siNA constructs are also tested in parallel for RNAi activity using an appropriate assay, such as a luciferase reporter assay as described herein or another suitable assay that can quantity RNAi activity. Synthetic siNA constructs that possess both nuclease stability and RNAi activity can be further modified and reevaluated in stability and activity assays. The chemical modifications of the stabilized active siNA constructs can then be applied to any siNA sequence targeting any chosen RNA and used, for example, in target screening assays to pick lead siNA compounds for therapeutic development (see for example Figure 11).

25 Example 5: Chemical Synthesis and Purification of siNA

siNA molecules can be designed to interact with various sites in the RNA message, for example, target sequences within the RNA sequences described herein. The sequence of one strand of the siNA molecule(s) is complementary to the target site sequences described above. The siNA molecules can be chemically synthesized using methods described herein. Inactive siNA molecules that are used as control sequences can be synthesized by scrambling the sequence of the siNA molecules such that it is not

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complementary to the target sequence. Generally, siNA constructs can by synthesized using solid phase oligonucleotide synthesis methods as described herein (see for example Usman *et al.*, US Patent Nos. 5,804,683; 5,831,071; 5,998,203; 6,117,657; 6,353,098; 6,362,323; 6,437,117; 6,469,158; Scaringe *et al.*, US Patent Nos. 6,111,086; 6,008,400; 6,111,086 all incorporated by reference herein in their entirety).

In a non-limiting example, RNA oligonucleotides are synthesized in a stepwise fashion using the phosphoramidite chemistry as is known in the art. Standard phosphoramidite chemistry involves the use of nucleosides comprising any of 5'-O-dimethoxytrityl, 2'-O-tert-butyldimethylsilyl, 3'-O-2-Cyanoethyl N,N-diisopropylphosphoroamidite groups, and exocyclic amine protecting groups (e.g. N6-benzoyl adenosine, N4 acetyl cytidine, and N2-isobutyryl guanosine). Alternately, 2'-O-Silyl Ethers can be used in conjunction with acid-labile 2'-O-orthoester protecting groups in the synthesis of RNA as described by Scaringe *supra*. Differing 2' chemistries can require different protecting groups, for example 2'-deoxy-2'-amino nucleosides can utilize N-phthaloyl protection as described by Usman *et al.*, US Patent 5,631,360, incorporated by reference herein in its entirety).

During solid phase synthesis, each nucleotide is added sequentially (3'- to 5'-direction) to the solid support-bound oligonucleotide. The first nucleoside at the 3'-end of the chain is covalently attached to a solid support (e.g., controlled pore glass or polystyrene) using various linkers. The nucleotide precursor, a ribonucleoside phosphoramidite, and activator are combined resulting in the coupling of the second nucleoside phosphoramidite onto the 5'-end of the first nucleoside. The support is then washed and any unreacted 5'-hydroxyl groups are capped with a capping reagent such as acetic anhydride to yield inactive 5'-acetyl moieties. The trivalent phosphorus linkage is then oxidized to a more stable phosphate linkage. At the end of the nucleotide addition cycle, the 5'-O-protecting group is cleaved under suitable conditions (e.g., acidic conditions for trityl-based groups and Fluoride for silyl-based groups). The cycle is repeated for each subsequent nucleotide.

Modification of synthesis conditions can be used to optimize coupling efficiency, for example by using differing coupling times, differing reagent/phosphoramidite concentrations, differing contact times, differing solid supports and solid support linker

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chemistries depending on the particular chemical composition of the siNA to be synthesized. Deprotection and purification of the siNA can be performed as is generally described in Usman *et al.*, US 5,831,071, US 6,353,098, US 6,437,117, and Bellon *et al.*, US 6,054,576, US 6,162,909, US 6,303,773, or Scaringe *supra*, incorporated by reference herein in their entireties. Additionally, deprotection conditions can be modified to provide the best possible yield and purity of siNA constructs. For example, applicant has observed that oligonucleotides comprising 2'-deoxy-2'-fluoro nucleotides can degrade under inappropriate deprotection conditions. Such oligonucleotides are deprotected using aqueous methylamine at about 35°C for 30 minutes. If the 2'-deoxy-2'-fluoro containing oligonucleotide also comprises ribonucleotides, after deprotection with aqueous methylamine at about 35°C for 30 minutes, TEA-HF is added and the reaction maintained at about 65°C for an additional 15 minutes.

Example 6: RNAi in vitro assay to assess siNA activity

An in vitro assay that recapitulates RNAi in a cell-free system is used to evaluate siNA constructs targeting target RNA. The assay comprises the system described by Tuschl et al., 1999, Genes and Development, 13, 3191-3197 and Zamore et al., 2000, Cell, 101, 25-33 adapted for use with target RNA. A Drosophila extract derived from syncytial blastoderm is used to reconstitute RNAi activity in vitro. Target RNA is generated via in vitro transcription from an appropriate target expressing plasmid using T7 RNA polymerase or via chemical synthesis as described herein. Sense and antisense siNA strands (for example 20 uM each) are annealed by incubation in buffer (such as 100 mM potassium acetate, 30 mM HEPES-KOH, pH 7.4, 2 mM magnesium acetate) for 1 minute at 90°C followed by 1 hour at 37°C, then diluted in lysis buffer (for example 100 mM potassium acetate, 30 mM HEPES-KOH at pH 7.4, 2mM magnesium acetate). Annealing can be monitored by gel electrophoresis on an agarose gel in TBE buffer and stained with ethidium bromide. The Drosophila lysate is prepared using zero to twohour-old embryos from Oregon R flies collected on yeasted molasses agar that are dechorionated and lysed. The lysate is centrifuged and the supernatant isolated. The assay comprises a reaction mixture containing 50% lysate [vol/vol], RNA (10-50 pM final concentration), and 10% [vol/vol] lysis buffer containing siNA (10 nM final concentration). The reaction mixture also contains 10 mM creatine phosphate, 10 ug/ml

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creatine phosphokinase, 100 um GTP, 100 uM UTP, 100 uM CTP, 500 uM ATP, 5 mM DTT, 0.1 U/uL RNasin (Promega), and 100 uM of each amino acid. The final concentration of potassium acetate is adjusted to 100 mM. The reactions are preassembled on ice and preincubated at 25° C for 10 minutes before adding RNA, then incubated at 25° C for an additional 60 minutes. Reactions are quenched with 4 volumes of 1.25 x Passive Lysis Buffer (Promega). Target RNA cleavage is assayed by RT-PCR analysis or other methods known in the art and are compared to control reactions in which siNA is omitted from the reaction.

Alternately, internally-labeled target RNA for the assay is prepared by *in vitro* transcription in the presence of [alpha-³²p] CTP, passed over a G50 Sephadex column by spin chromatography and used as target RNA without further purification. Optionally, target RNA is 5'-³²P-end labeled using T4 polynucleotide kinase enzyme. Assays are performed as described above and target RNA and the specific RNA cleavage products generated by RNAi are visualized on an autoradiograph of a gel. The percentage of cleavage is determined by PHOSPHOR IMAGER[®] (autoradiography) quantitation of bands representing intact control RNA or RNA from control reactions without siNA and the cleavage products generated by the assay.

In one embodiment, this assay is used to determine target sites in the target RNA target for siNA mediated RNAi cleavage, wherein a plurality of siNA constructs are screened for RNAi mediated cleavage of the target RNA, for example, by analyzing the assay reaction by electrophoresis of labeled target RNA, or by northern blotting, as well as by other methodology well known in the art.

Example 7: Nucleic acid inhibition of target RNA

siNA molecules targeted to the human target RNA are designed and synthesized as described above. These nucleic acid molecules can be tested for cleavage activity *in vivo*, for example, using the following procedure.

Two formats are used to test the efficacy of siNAs of the invention. First, the reagents are tested in cell culture to determine the extent of RNA and protein inhibition. siNA reagents are selected against the target as described herein. RNA inhibition is

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measured after delivery of these reagents by a suitable transfection agent to cells. Relative amounts of target RNA are measured versus actin using real-time PCR monitoring of amplification (eg., ABI 7700 TAQMAN® (real-time PCR monitoring of amplification)). A comparison is made to a mixture of oligonucleotide sequences made to unrelated targets or to a randomized siNA control with the same overall length and chemistry, but randomly substituted at each position. Primary and secondary lead reagents are chosen for the target and optimization performed. After an optimal transfection agent concentration is chosen, a RNA time-course of inhibition is performed with the lead siNA molecule. In addition, a cell-plating format can be used to determine RNA inhibition.

Delivery of siNA to Cells

Cells (e.g., HEKn/HEKa, HeLa, A549, A375 cells) are seeded, for example, at 1x10⁵ cells per well of a six-well dish in EGM-2 (BioWhittaker) the day before transfection. siNA (final concentration, for example 20nM) and cationic lipid (e.g., final concentration 2μg/ml) are complexed in EGM basal media (Bio Whittaker) at 37°C for 30 minutes in polystyrene tubes. Following vortexing, the complexed siNA is added to each well and incubated for the times indicated. For initial optimization experiments, cells are seeded, for example, at 1x10³ in 96 well plates and siNA complex added as described. Efficiency of delivery of siNA to cells is determined using a fluorescent siNA complexed with lipid. Cells in 6-well dishes are incubated with siNA for 24 hours, rinsed with PBS and fixed in 2% paraformaldehyde for 15 minutes at room temperature. Uptake of siNA is visualized using a fluorescent microscope.

TAQMAN® (real-time PCR monitoring of amplification) and Lightcycler quantification of mRNA

Total RNA is prepared from cells following siNA delivery, for example, using Qiagen RNA purification kits for 6-well or Rneasy extraction kits for 96-well assays. For TAQMAN® analysis (real-time PCR monitoring of amplification), dual-labeled probes are synthesized with the reporter dye, FAM or JOE, covalently linked at the 5'-end and the quencher dye TAMRA conjugated to the 3'-end. One-step RT-PCR amplifications are performed on, for example, an ABI PRISM 7700 Sequence Detector using 50 μl

reactions consisting of 10 µl total RNA, 100 nM forward primer, 900 nM reverse primer, 100 nM probe, 1X TaqMan PCR reaction buffer (PE-Applied Biosystems), 5.5 mM MgCl₂, 300 µM each dATP, dCTP, dGTP, and dTTP, 10U RNase Inhibitor (Prornega), 1.25U AMPLITAQ GOLD® (DNA polymerase) (PE-Applied Biosystems) and 10U M-MLV Reverse Transcriptase (Promega). The thermal cycling conditions can consist of 30 minutes at 48°C, 10 minutes at 95°C, followed by 40 cycles of 15 seconds at 95°C and 1 minute at 60°C. Quantitation of mRNA levels is determined relative to standards generated from serially diluted total cellular RNA (300, 100, 33, 11 ng/rxn) and normalizing to β-actin or GAPDH mRNA in parallel TAQMAN® reactions (rea1-time PCR monitoring of amplification). For each gene of interest an upper and lower primer and a fluorescently labeled probe are designed. Real time incorporation of SYBR Green I dye into a specific PCR product can be measured in glass capillary tubes using a lightcyler. A standard curve is generated for each primer pair using control cRNA. Values are represented as relative expression to GAPDH in each sample.

15 Western blotting

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Nuclear extracts can be prepared using a standard micro preparation technique (see for example Andrews and Faller, 1991, *Nucleic Acids Research*, 19, 2499). Protein extracts from supernatants are prepared, for example using TCA precipitation. An equal volume of 20% TCA is added to the cell supernatant, incubated on ice for 1 hour and pelleted by centrifugation for 5 minutes. Pellets are washed in acetone, dried and resuspended in water. Cellular protein extracts are run on a 10% Bis-Tris Nu.Page (nuclear extracts) or 4-12% Tris-Glycine (supernatant extracts) polyacrylamide gel and transferred onto nitro-cellulose membranes. Non-specific binding can be blocked by incubation, for example, with 5% non-fat milk for 1 hour followed by primary anti-body for 16 hour at 4°C. Following washes, the secondary antibody is applied, for example (1:10,000 dilution) for 1 hour at room temperature and the signal detected with SuperSignal reagent (Pierce).

Example 8: Models useful to evaluate the down-regulation of gene expression

Evaluating the efficacy of siNA molecules of the invention in animal models is an important prerequisite to human clinical trials. Various animal models of carneer,

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proliferative, inflammatory, autoimmune, neurologic, ocular, respiratory, metabolic, etc. diseases, conditions, or disorders as are known in the art can be adapted for use for preclinical evaluation of the efficacy of nucleic acid compositions of the invetention in modulating target gene expression toward therapeutic, cosmetic, or research use.

5 Example 9: RNAi mediated inhibition of target gene expression

siNA constructs (are tested for efficacy in reducing target RNA expression in cells, (e.g., HEKn/HEKa, HeLa, A549, A375 cells). Cells are plated approximately 24 hours before transfection in 96-well plates at 5,000-7,500 cells/well, 100 µl/well, such that at the time of transfection cells are 70-90% confluent. For transfection, annealed siNAs are mixed with the transfection reagent (Lipofectamine 2000, Invitrogen) in a volume of 50 μl/well and incubated for 20 minutes at room temperature. The siNA transfection mixtures are added to cells to give a final siNA concentration of 25 nM in a volume of 150 µl. Each siNA transfection mixture is added to 3 wells for triplicate siNA treatments. Cells are incubated at 37° for 24 hours in the continued presence of the siNA transfection mixture. At 24 hours, RNA is prepared from each well of treated cells. The supernatants with the transfection mixtures are first removed and discarded, then the cells are lysed and RNA prepared from each well. Target gene expression following treatment is evaluated by RT-PCR for the target gene and for a control gene (36B4, an RNA polymerase subunit) for normalization. The triplicate data is averaged and the standard deviations determined for each treatment. Normalized data are graphed and the percent reduction of target mRNA by active siNAs in comparison to their respective inverted control siNAs is determined.

Example 10: Indications

Particular conditions and disease states that can be associated with gene expression modulation include, but are not limited to proliferative, inflammatory, autoimmune, neurologic, ocular, respiratory, metabolic etc. diseases, conditions, or disorders as described herein or otherwise known in the art, and any other diseases, conditions or disorders that are related to or will respond to the levels of a target (e.g., target protein or target polynucleotide) in a cell or tissue, alone or in combination with other therapies.

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Those skilled in the art will recognize that other drugs such as anti-cancer compounds and therapies can be similarly be readily combined with the nucleic acid molecules of the instant invention (e.g. ribozymes and antisense molecules) and are hence within the scope of the instant invention. Such compounds and therapies are well known in the art. For combination therapy, the nucleic acids of the invention are prepared in one of two ways. First, the agents are physically combined in a preparation of nucleic acid and chemotherapeutic agent, such as a mixture of a nucleic acid of the invention encapsulated in liposomes and ifosfamide in a solution for intravenous administration, wherein both agents are present in a therapeutically effective concentration (e.g., ifosfamide in solution to deliver 1000-1250 mg/m2/day and liposome-associated nucleic acid of the invention in the same solution to deliver 0.1-100 mg/kg/day). Alternatively, the agents are administered separately but simultaneously in their respective effective doses (e.g., 1000-1250 mg/m2/d ifosfamide and 0.1 to 100 mg/kg/day nucleic acid of the invention).

15 Example 11: Diagnostic uses

The siNA molecules of the invention can be used in a variety of diagnostic applications, such as in the identification of molecular targets (e.g., RNA) in a variety of applications, for example, in clinical, industrial, environmental, agricultural and/or research settings. Such diagnostic use of siNA molecules involves utilizing reconstituted RNAi systems, for example, using cellular lysates or partially purified cellular lysates. siNA molecules of this invention can be used as diagnostic tools to examine genetic drift and mutations within diseased cells or to detect the presence of endogenous or exogenous, for example viral, RNA in a cell. The close relationship between siNA activity and the structure of the target RNA allows the detection of mutations in any region of the molecule, which alters the base-pairing and three-dimensional structure of the target RNA. By using multiple siNA molecules described in this invention, one can map nucleotide changes, which are important to RNA structure and function in vitro, as well as in cells and tissues. Cleavage of target RNAs with siNA molecules can be used to inhibit gene expression and define the role of specified gene products in the progression of disease or infection. In this manner, other genetic targets can be defined as important mediators of the disease. These experiments will lead to better treatment of

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the disease progression by affording the possibility of combination therapies (e.g., multiple siNA molecules targeted to different genes, siNA molecules coupled with known small molecule inhibitors, or intermittent treatment with combinations siNA molecules and/or other chemical or biological molecules). Other *in vitro* uses of siNA molecules of this invention are well known in the art, and include detection of the presence of mRNAs associated with a disease, infection, or related condition. Such RNA is detected by determining the presence of a cleavage product after treatment with a siNA using standard methodologies, for example, fluorescence resonance emission transfer (FRET).

In a specific example, siNA molecules that cleave only wild-type or mutant forms of the target RNA are used for the assay. The first siNA molecules (i.e., those that cleave only wild-type forms of target RNA) are used to identify wild-type RNA present in the sample and the second siNA molecules (i.e., those that cleave only mutant forms of target RNA) are used to identify mutant RNA in the sample. As reaction controls, synthetic substrates of both wild-type and mutant RNA are cleaved by both siNA molecules to demonstrate the relative siNA efficiencies in the reactions and the absence of cleavage of the "non-targeted" RNA species. The cleavage products from the synthetic substrates also serve to generate size markers for the analysis of wild-type and mutant RNAs in the sample population. Thus, each analysis requires two siNA molecules, two substrates and one unknown sample, which is combined into six reactions. The presence of cleavage products is determined using an RNase protection assay so that full-length and cleavage fragments of each RNA can be analyzed in one lane of a polyacrylamide gel. It is not absolutely required to quantify the results to gain insight into the expression of mutant RNAs and putative risk of the desired phenotypic changes in target cells. The expression of mRNA whose protein product is implicated in the development of the phenotype (i.e., disease related or infection related) is adequate to establish risk. If probes of comparable specific activity are used for both transcripts, then a qualitative comparison of RNA levels is adequate and decreases the cost of the initial diagnosis. Higher mutant form to wild-type ratios are correlated with higher risk whether RNA levels are compared qualitatively or quantitatively.

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All patents and publications mentioned in the specification are indicative of the levels of skill of those skilled in the art to which the invention pertains. All references cited in this disclosure are incorporated by reference to the same extent as if each reference had been incorporated by reference in its entirety individually.

One skilled in the art would readily appreciate that the present invention is well adapted to carry out the objects and obtain the ends and advantages mentioned, as well as those inherent therein. The methods and compositions described herein as presently representative of preferred embodiments are exemplary and are not intended as limitations on the scope of the invention. Changes therein and other uses will occur to those skilled in the art, which are encompassed within the spirit of the invention, are defined by the scope of the claims.

It will be readily apparent to one skilled in the art that varying substitutions and modifications can be made to the invention disclosed herein without departing from the scope and spirit of the invention. Thus, such additional embodiments are within the scope of the present invention and the following claims. The present invention teaches one skilled in the art to test various combinations and/or substitutions of chemical modifications described herein toward generating nucleic acid constructs with improved activity for mediating RNAi activity. Such improved activity can comprise improved stability, improved bioavailability, and/or improved activation of cellular responses mediating RNAi. Therefore, the specific embodiments described herein are not limiting and one skilled in the art can readily appreciate that specific combinations of the modifications described herein can be tested without undue experimentation toward identifying siNA molecules with improved RNAi activity.

The invention illustratively described herein suitably can be practiced in the absence of any element or elements, limitation or limitations that are not specifically disclosed herein. Thus, for example, in each instance herein any of the terms "comprising", "consisting essentially of", and "consisting of" may be replaced with either of the other two terms. The terms and expressions which have been employed are used as terms of description and not of limitation, and there is no intention that in the use of such terms and expressions of excluding any equivalents of the features shown and described or portions thereof, but it is recognized that various modifications are possible

within the scope of the invention claimed. Thus, it should be understood that although the present invention has been specifically disclosed by preferred embodiments, optional features, modification and variation of the concepts herein disclosed may be resorted to by those skilled in the art, and that such modifications and variations are considered to be within the scope of this invention as defined by the description and the appended claims.

In addition, where features or aspects of the invention are described in terms of Markush groups or other grouping of alternatives, those skilled in the art will recognize that the invention is also thereby described in terms of any individual member or subgroup of members of the Markush group or other group.

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NM 000536 Homo sapiens recombination activating gene 2 (RAG2), mRNA
NM 000601 Homo sapiens hepatocyte growth factor (hepapoletin A; scatter factor) (HGF)
NM 000940 Homo sapiens paraoxonase 3 (PON3), mRNA
NM_000941 Homo sapiens P450 (cytochrome) oxidoreductase (POR), mRNA
NM 000953 Homo sapiens prostaglandin D2 receptor (DP) (PTGDR), mRNA
NM_0010011 Homo sapiens intersectin 1 (SH3 domain protein) (ITSN1), transcript variant
NM_0010011 Homo sapiens transient receptor potential cation channel, subfamily M, mem
NM_0010012: Homo sapiens solute carrier family 2 (facilitated glucose transporter), membe
NM 0010013 Homo sapiens trypsin X3 (TRY1), mRNA
NM_0010013 Homo sapiens ATPase, Ca++ transporting, plasma membrane 1 (ATP2B1), t
NM_0010013; Homo sapiens similar to ubiquitin-specific protease 17-like protein (LOC4014
NM 0010013. Homo sapiens Kazal type serine protease inhibitor 5-like 2 (SPINK5L2), mRN
NM_0010013. Homo sapiens protein kinase C substrate 80K-H (PRKCSH), transcript variar
NM 0010013 Homo sapiens chromosome 10 open reading frame 74 (C10orf74), mRNA
NM 0010013 Homo sapiens ATPase, Ca++ transporting, plasma membrane 2 (ATP2B2), t
NM 0010013: Homo sapiens cytochrome b5 reductase b5R.2 (CYB5R2), transcript variant
NM 0010013 Homo sapiens biogenesis of lysosome-related organelles complex-1, subunir
NM_0010013 Homo sapiens MGC27121 gene (MGC27121), mRNA
NM_0010013 Homo sapiens ATPase, Ca++ transporting, plasma membrane 3 (ATP2B3), t
NM_0010013 Homo sapiens claudin 20 (CLDN20), mRNA
NM_0010013 Homo sapiens NFKB inhibitor interacting Ras-like 2 (NKIRAS2), transcript va
NM 0010013 Homo sapiens CD44 antigen (homing function and Indian blood group syster
NM_0010013! Homo sapiens CD44 antigen (homing function and Indian blood group system
NM_0010013! Homo sapiens CD44 antigen (homing function and Indian blood group syster
NM_0010013! Homo sapiens CD44 antigen (homing function and Indian blood group syster
NM 0010013! Homo sapiens HCG3 gene (HCG3), mRNA
NM 0010013! Homo sapiens LIM domain only 3 (rhombotin-like 2) (LMO3), transcript variar
NM 0010013! Homo sapiens ATPase, Ca++ transporting, plasma membrane 4 (ATP2B4), t
NM_0010014 Homo sapiens hypothetical protein MGC24381 (MGC24381), mRNA
NM_0010014 Homo sapiens similar to Zinc finger protein 208 (LOC163223), mRNA
NM_0010014 Homo sapiens family with sequence similarity 26, member C (FAM26C), mRI
NM_0010014 Homo sapiens similar to F-box only protein 2 (LOC342897), mRNA
NM_0010014 Homo sapiens zinc finger protein 429 (ZNF429), mRNA
NM_0010014 Homo sapiens similar to TBC1 domain family, member 3, centromeric (LOC4
NM_0010014 Homo sapiens similar to TBC1 domain family, member 3, telomeric (MGC449
NM_0010014 Homo sapiens SMAD, mothers against DPP homolog 5 (Drosophila) (SMAD
NM_0010014; Homo sapiens SMAD, mothers against DPP homolog 5 (Drosophila) (SMAD
NM_0010014: Homo sapiens troponin T2, cardiac (TNNT2), transcript variant 2, mRNA
NM_0010014: Homo sapiens troponin T2, cardiac (TNNT2), transcript variant 3, mRNA
NM 0010014: Homo sapiens troponin T2, cardiac (TNNT2), transcript variant 4, mRNA
NM 0010014; Homo sapiens syntaxin 16 (STX16), transcript variant 1, mRNA
NM_0010014: Homo sapiens syntaxin 16 (STX16), transcript variant 3, mRNA
NM 0010014: Homo sapiens chemokine (C-C motif) ligand 4-like (CCL4L), mRNA
NM_0010014: Homo sapiens similar to RIKEN cDNA 4921524J17 (LOC388272), mRNA
NM_0010014: Homo sapiens chemokine (C-C motif) ligand 3-like, centromeric (MGC12815
NM_0010014: Homo sapiens lanosterol synthase (2,3-oxidosqualene-lanosterol cyclase) (L
NM_0010014 Homo sapiens solute carrier family 35, member E4 (SLC35E4), mRNA
NM 0010014 Homo sapiens hypothetical protein FLJ11011 (FLJ11011), transcript variant
NM 0010014 Homo sapiens hypothetical protein FLJ11011 (FLJ11011), transcript variant:
NM_0010014l Homo sapiens zinc finger, DHHC domain containing 13 (ZDHHC13), transcri
NM_0010014i Homo sapiens phosphotriesterase related (PTER), transcript variant 1, mRN<sub>i</sub>
NM_0010014 Homo sapiens ATPase, Ca++ transporting, type 2C, member 1 (ATP2C1), tra
NM 0010014 Homo sapiens ATPase, Ca++ transporting, type 2C, member 1 (ATP2C1), tra
NM 0010014/Homo sapiens ATPase, Ca++ transporting, type 2C, member 1 (ATP2C1), tra
 NM_0010015 Homo sapiens synuclein, beta (SNCB), transcript variant 1, mRNA
 NM_0010015I Homo sapiens NADH dehydrogenase (ubiquinone) flavoprotein 3, 10kDa (NI
 NM_0010015; Homo sapiens hepatoma-derived growth factor-related protein 2 (HDGF2), tr
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NM_0010015; Homo sapiens UDP-glucose pyrophosphorylase 2 (UGP2), transcript variant
NM 0010015 Homo sapiens transgelin (TAGLN), transcript variant 1, mRNA
NM 0010015; Homo sapiens RAR-related orphan receptor C (RORC), transcript variant 2, I
NM_0010015; Homo sapiens transmembrane 6 superfamily member 2 (TM6SF2), transcrip-
NM_0010015 Homo sapiens CD36 antigen (collagen type I receptor, thrombospondin recei
NM_0010015 Homo sapiens CD36 antigen (collagen type I receptor, thrombospondin receptor)
NM_0010015 Homo sapiens growth factor receptor-bound protein 10 (GRB10), transcript v
NM_0010015! Homo sapiens growth factor receptor-bound protein 10 (GRB10), transcript v
NM 0010015! Homo sapiens chromosome 9 open reading frame 103 (C9orf103), mRNA
NM_0010015! Homo sapiens LEM domain containing 1 (LEMD1), mRNA
NM_0010015! Homo sapiens germ and embryonic stem cell enriched protein STELLA (STE
NM_0010015! Homo sapiens growth factor receptor-bound protein 10 (GRB10), transcript v
NM_0010015! Homo sapiens galactokinase 2 (GALK2), transcript variant 2, mRNA
NM_0010015! Homo sapiens similar to growth differentiation factor 16 (LOC392255), mRN/
NM_0010015l Homo sapiens golgi associated, gamma adaptin ear containing, ARF binding
NM_0010015l Homo sapiens golgi associated, gamma adaptin ear containing, ARF binding
NM 00100151 Homo sapiens translocase of inner mitochondrial membrane 50 homolog (ye
NM_0010015i Homo sapiens phosphodiesterase 9A (PDE9A), transcript variant 2, mRNA
NM_0010015i Homo sapiens phosphodiesterase 9A (PDE9A), transcript variant 3, mRNA
NM_0010015i Homo sapiens phosphodiesterase 9A (PDE9A), transcript variant 4, mRNA
NM_0010015 Homo sapiens phosphodiesterase 9A (PDE9A), transcript variant 5, mRNA
NM_0010015 Homo sapiens phosphodiesterase 9A (PDE9A), transcript variant 6, mRNA
NM 0010015 Homo sapiens phosphodiesterase 9A (PDE9A), transcript variant 7, mRNA
NM_0010015 Homo sapiens phosphodiesterase 9A (PDE9A), transcript variant 8, mRNA
NM_0010015 Homo sapiens phosphodiesterase 9A (PDE9A), transcript variant 9, mRNA
NM_0010015 Homo sapiens phosphodiesterase 9A (PDE9A), transcript variant 10, mRNA
NM_0010015' Homo sapiens phosphodiesterase 9A (PDE9A), transcript variant 11, mRNA
NM_0010015 Homo sapiens phosphodiesterase 9A (PDE9A), transcript variant 12, mRNA
NM_0010015 Homo sapiens phosphodiesterase 9A (PDE9A), transcript variant 13, mRNA
NM 0010015 Homo sapiens phosphodiesterase 9A (PDE9A), transcript variant 14, mRNA
NM_0010015i Homo sapiens phosphodiesterase 9A (PDE9A), transcript variant 15, mRNA
NM_0010015i Homo sapiens phosphodiesterase 9A (PDE9A), transcript variant 16, mRNA
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NM_0010015i Homo sapiens phosphodiesterase 9A (PDE9A), transcript variant 18, mRNA
NM 0010015 Homo sapiens phosphodiesterase 9A (PDE9A), transcript variant 19, mRNA
NM_0010015 Homo sapiens phosphodiesterase 9A (PDE9A), transcript variant 20, mRNA
NM_0010015i Homo sapiens ATPase, Na+/K+ transporting, alpha 1 polypeptide (ATP1A1),
NM_0010016! Homo sapiens mediator of RNA polymerase II transcription, subunit 8 homo le
NM_0010016! Homo sapiens mediator of RNA polymerase II transcription, subunit 8 homole
NM 0010016! Homo sapiens mediator of RNA polymerase II transcription, subunit 8 homole
NM_0010016! Homo sapiens similar to hypothetical protein 9530023G02 (MGC90512), mR
NM 0010016! Homo sapiens olfactory receptor, family 9, subfamily A, member 4 (OR9A4),
NM 0010016! Homo sapiens olfactory receptor, family 9, subfamily A, member 2 (OR9A2),
NM 0010016 Homo sapiens olfactory receptor, family 2, subfamily A, member 14 (OR2A14
NM_0010016 Homo sapiens hypothetical protein LOC144363 (LOC144363), mRNA
NM_0010016 Homo sapiens hypothetical protein LOC155054 (LOC155054), mRNA
NM_0010016 Homo sapiens FLJ16636 protein (FLJ16636), mRNA
NM_0010016 Homo sapiens hypothetical LOC255349 (bA9F11.1), mRNA
NM_0010016i Homo sapiens hypothetical protein LOC339745 (LOC339745), mRNA
NM_0010016l Homo sapiens FLJ16008 protein (FLJ16008), mRNA
NM_0010016i Homo sapiens prostate cancer associated protein 5 (PCANAP5), transcript v
NM_0010016l Homo sapiens olfactory receptor, family 6, subfamily V, member 1 (OR6V1),
NM_0010016 Homo sapiens FLJ26175 protein (FLJ26175), mRNA
NM 0010016l Homo sapiens FLJ41603 protein (FLJ41603), mRNA
NM_0010016 Homo sapiens FLJ46321 protein (FLJ46321), mRNA
NM 0010016 Homo sapiens FLJ16518 protein (FLJ16518), mRNA
NM 0010016 Homo sapiens ribonuclease-like protein 9 (h461), mRNA
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NM 0010016 Homo sapiens FLJ46385 protein (FLJ46385), mRNA
NM 0010016 Homo sapiens lipocalin 9 (LCN9), mRNA
NM 0010016 Homo sapiens FLJ46300 protein (FLJ46300), mRNA
NM 0010016 Homo sapiens FLJ44653 protein (FLJ44653), mRNA
NM 0010016 Homo sapiens FLJ41423 protein (FLJ41423), mRNA
NM 0010016 Homo sapiens FLJ42102 protein (FLJ42102), mRNA
NM_0010016i Homo sapiens FLJ45300 protein (FLJ45300), mRNA
NM 0010016i Homo sapiens FLJ45530 protein (FLJ45530), mRNA
NM_0010016 Homo sapiens similar to HSPC296 (MGC88387), mRNA
NM 0010016 Homo sapiens FLJ45831 protein (FLJ45831), mRNA
NM 0010016 Homo sapiens FLJ45079 protein (FLJ45079), mRNA
NM 0010016 Homo sapiens FLJ43870 protein (FLJ43870), mRNA
NM 0010016 Homo sapiens FLJ26850 protein (FLJ26850), mRNA
NM 0010016 Homo sapiens FLJ35409 protein (FLJ35409), mRNA
NM_0010016 Homo sapiens FLJ44005 protein (FLJ44005), mRNA
NM_0010016! Homo sapiens hypothetical FLJ42133 (FLJ42133), mRNA
NM_0010016! Homo sapiens FLJ44790 protein (FLJ44790), mRNA
NM 0010016! Homo sapiens FLJ45139 protein (FLJ45139), mRNA
NM 0010016 Homo sapiens FLJ46257 protein (FLJ46257), mRNA
NM 0010016! Homo sapiens FLJ41993 protein (FLJ41993), mRNA
NM 0010016! Homo sapiens FLJ42418 protein (FLJ42418), mRNA
NM_0010016! Homo sapiens FLJ44006 protein (FLJ44006), mRNA
NM 0010016! Homo sapiens FLJ41821 protein (FLJ41821), mRNA
NM 0010016! Homo sapiens FLJ43879 protein (FLJ43879), mRNA
NM 0010016! Homo sapiens FLJ25996 protein (FLJ25996), mRNA
NM_0010017/Homo sapiens FLJ45966 protein (FLJ45966), mRNA
NM 0010017(Homo sapiens HCV F-transactivated protein 1 (LOC401152), mRNA
NM 0010017(Homo sapiens FLJ33360 protein (FLJ33360), mRNA
NM_0010017(Homo sapiens FLJ46010 protein (FLJ46010), mRNA
NM 0010017 Homo sapiens FLJ44796 protein (FLJ44796), mRNA
NM_0010017( Homo sapiens FLJ41649 protein (FLJ41649), mRNA
NM 00100171 Homo sapiens FLJ42177 protein (FLJ42177), mRNA
NM_0010017(Homo sapiens FLJ45974 protein (FLJ45974), mRNA
NM_0010017(Homo sapiens FLJ45537 protein (FLJ45537), mRNA
NM 0010017 Homo sapiens similar to 4931415M17 protein (LOC401565), mRNA
NM 0010017 Homo sapiens DNA-damage inducible protein 1 (DDI1), mRNA
NM 0010017 Homo sapiens lipocalin 10 (LCN10), mRNA
NM 0010017 Homo sapiens SH3 domain binding glutamic acid-rich protein (SH3BGR), tra
NM 0010017 Homo sapiens FERM, RhoGEF (ARHGEF) and pleckstrin domain protein 1 (
NM 0010017 Homo sapiens nuclear factor of kappa light polypeptide gene enhancer in B-c
NM 0010017: Homo sapiens chromodomain protein, Y chromosome, 2 related (CDY), mRN
NM_0010017: Homo sapiens transmembrane protein 1 (TMEM1), transcript variant 2, mRN
NM 0010017: Homo sapiens Mahlavu hepatocellular carcinoma (HHCM), mRNA
NM_0010017: Homo sapiens chromosome 10 open reading frame 130 (C10orf130), mRNA
NM 0010017: Homo sapiens ATPase, Na+/K+ transporting, alpha 4 polypeptide (ATP1A4),
NM_0010017 Homo sapiens constitutive photomorphogenic protein (COP1), transcript vari
NM 0010017l Homo sapiens BRCC2 mRNA (BRCC2), mRNA
NM 0010017(Homo sapiens ATPase, Na+/K+ transporting, beta 1 polypeptide (ATP1B1), t
NM 0010017( Homo sapiens chromosome 21 open reading frame 24 (C21orf24), mRNA
NM 0010017! Homo sapiens chromosome 9 open reading frame 105 (C9orf105), mRNA
NM 0010017! Homo sapiens chromosome 10 open reading frame 55 (C10orf55), mRNA
NM_0010017! Homo sapiens similar to RIKEN cDNA 1700027J05 gene (MGC33692), mRN
NM 0010017! Homo sapiens similar to RIKEN cDNA C030006K11 gene (MGC70857), mRi
NM_0010018I Homo sapiens olfactory receptor, family 2, subfamily A, member 42 (OR2A42
NM 0010018. Homo sapiens olfactory receptor, family 2, subfamily T, member 34 (OR2T34
NM 0010018; Homo sapiens olfactory receptor, family 2, subfamily T, member 27 (OR2T27
NM_0010018: Homo sapiens olfactory receptor, family 2, subfamily T, member 35 (OR2T35
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NM 0010018! Homo sapiens similar to RIKEN cDNA A030009B12 gene (MGC21382), mRN NM 0010018! Homo sapiens inter-alpha (globulin) inhibitor H5 (ITIH5), transcript variant 3, NM 0010018! Homo sapiens serine/threonine-protein kinase pim-3 (PIM3), mRNA NM_0010018 Homo sapiens hypothetical protein MGC14376 (MGC14376), transcript varia NM 0010018 Homo sapiens heat shock transcription factor, Y-linked 1 (HSFY1), transcript NM 0010018' Homo sapiens chromosome 14 open reading frame 37 (C14orf37), mRNA NM 0010018' Homo sapiens hypothetical protein LOC283174 (LOC283174), mRNA NM_0010018 Homo sapiens protein kinase NYD-SP25 (NYD-SP25), transcript variant 2, m NM_0010018 Homo sapiens protein kinase NYD-SP25 (NYD-SP25), transcript variant 3, m NM_0010018 Homo sapiens heat shock transcription factor, Y linked 2 (HSFY2), transcript NM 0010018' Homo sapiens heat shock transcription factor, Y linked 2 (HSFY2), transcript NM 0010018 Homo sapiens interferon-induced protein with tetratricopeptide repeats 1 (IFI NM 0010018l Homo sapiens variably charged X-C (VCX-C), mRNA NM 0010018! Homo sapiens runt-related transcription factor 1 (acute myeloid leukemia 1; a NM 0010018! Homo sapiens prostate cancer associated protein 5 (PCANAP5), transcript v NM 0010018! Homo sapiens tetratricopeptide repeat domain 3 (TTC3), transcript variant 2, NM 0010018: Homo sapiens ubiquitin associated and SH3 domain containing, A (UBASH3 NM 0010019 Homo sapiens olfactory receptor, family 4, subfamily E, member 2 (OR4E2), NM 0010019 Homo sapiens olfactory receptor, family 52, subfamily N, member 1 (OR52N NM_0010019 Homo sapiens olfactory receptor, family 2, subfamily G, member 3 (OR2G3), NM 0010019 Homo sapiens olfactory receptor, family 2, subfamily G, member 2 (OR2G2), NM 0010019 Homo sapiens olfactory receptor, family 52, subfamily J, member 3 (OR52J3 NM_0010019 Homo sapiens olfactory receptor, family 56, subfamily A, member 1 (OR56A* NM 0010019 Homo sapiens olfactory receptor, family 5, subfamily BF, member 1 (OR5BF) NM 0010019; Homo sapiens olfactory receptor, family 5, subfamily AS, member 1 (OR5AS NM 0010019; Homo sapiens olfactory receptor OR11-62 (OR11-62), mRNA NM 0010019; Homo sapiens mitochondrial tumor suppressor 1 (MTUS1), transcript variant NM 0010019; Homo sapiens mitochondrial tumor suppressor 1 (MTUS1), transcript variant NM 0010019; Homo sapiens mitochondrial tumor suppressor 1 (MTUS1), transcript variant NM 0010019: Homo sapiens peroxisome proliferative activated receptor, alpha (PPARA), tr NM_0010019; Homo sapiens peroxisome proliferative activated receptor, alpha (PPARA), tr NM_0010019: Homo sapiens peroxisome proliferative activated receptor, alpha (PPARA), tr NM_0010019: Homo sapiens mitochondrial tumor suppressor 1 (MTUS1), transcript variant NM 0010019: Homo sapiens LIM homeobox 8 (LHX8), mRNA NM_0010019; Homo sapiens ATP synthase, H+ transporting, mitochondrial F1 complex, alk NM_0010019: Homo sapiens KIAA1914 (KIAA1914), transcript variant 1, mRNA NM_0010019: Homo sapiens ATP synthase, H+ transporting, mitochondrial F1 complex, alr NM 0010019; Homo sapiens chromosome 9 open reading frame 47 (C9orf47), mRNA NM_0010019: Homo sapiens 6-pyruvoyl-tetrahydropterin synthase/dimerization cofactor of NM_0010019! Homo sapiens olfactory receptor, family 10, subfamily G, member 9 (OR10G NM 0010019! Homo sapiens olfactory receptor, family 5, subfamily A, member 2 (OR5A2), NM_0010019! Homo sapiens olfactory receptor, family 13, subfamily C, member 9 (OR13C) NM 0010019! Homo sapiens olfactory receptor, family 2, subfamily W, member 3 (OR2W3) NM 0010019! Homo sapiens olfactory receptor, family 7, subfamily G, member 3 (OR7G3), NM 0010019! Homo sapiens olfactory receptor, family 11, subfamily L, member 1 (OR11L1 NM_00100191 Homo sapiens olfactory receptor, family 5, subfamily W, member 2 (OR5W2) NM 0010019(Homo sapiens olfactory receptor, family 13, subfamily C, member 3 (OR13C: NM_0010019l Homo sapiens olfactory receptor, family 6, subfamily B, member 2 pseudoge NM_00100191Homo sapiens olfactory receptor, family 2, subfamily L, member 8 (OR2L8), 1 NM_00100191Homo sapiens olfactory receptor, family 2, subfamily T, member 11 (OR2T11 NM 0010019(Homo sapiens olfactory receptor, family 4, subfamily D, member 5 (OR4D5), NM 0010019l Homo sapiens olfactory receptor, family 5, subfamily AT, member 1 (OR5AT) NM 0010019 Homo sapiens olfactory receptor, family 5, subfamily D, member 13 (OR5D1: NM 0010019 Homo sapiens olfactory receptor, family 6, subfamily S, member 1 (OR6S1), NM 0010019 Homo sapiens family with sequence similarity 13, member C1 (FAM13C1), tr NM_0010019 Homo sapiens ATP synthase, H+ transporting, mitochondrial F1 complex, ga NM_0010019 Homo sapiens pleckstrin homology domain containing, family A (phosphoino

NM_0010019 Homo sapiens ATP synthase, H+ transporting, mitochondrial F1 complex, de NM_0010019 Homo sapiens arginyltransferase 1 (ATE1), transcript variant 1, mRNA NM_0010019 Homo sapiens ATP synthase, H+ transporting, mitochondrial F1 complex, ep NM_0010019! Homo sapiens regeneration associated muscle protease (DKFZP586H2123) NM_0010019! Homo sapiens ubiquitin specific protease 16 (USP16), transcript variant 2, m NM_0010019! Homo sapiens glycoprotein M6B (GPM6B), transcript variant 4, mRNA NM_0010019! Homo sapiens glycoprotein M6B (GPM6B), transcript variant 1, mRNA NM_0010019! Homo sapiens glycoprotein M6B (GPM6B), transcript variant 2, mRNA NM_0010019! Homo sapiens exosome component 10 (EXOSC10), transcript variant 1, mRI NM_00100201 Homo sapiens guanosine monophosphate reductase 2 (GMPR2), transcript v NM_00100201 Homo sapiens guanosine monophosphate reductase 2 (GMPR2), transcript v NM_00100201 Homo sapiens guanosine monophosphate reductase 2 (GMPR2), transcript v NM_00100201 Homo sapiens 5'-nucleotidase, cytosolic IB (NT5C1B), transcript variant 1, m NM_0010020 Homo sapiens ATP synthase, H+ transporting, mitochondrial F0 complex, su NM 0010020 Homo sapiens ATP synthase, H+ transporting, mitochondrial F0 complex, su NM 0010020 Homo sapiens host cell factor C1 regulator 1 (XPO1 dependant) (HCFC1R1) NM_0010020 Homo sapiens host cell factor C1 regulator 1 (XPO1 dependant) (HCFC1R1) NM_0010020: Homo sapiens phosphofructokinase, liver (PFKL), transcript variant 1, mRNA NM_0010020; Homo sapiens claudin 18 (CLDN18), transcript variant 2, mRNA NM_0010020: Homo sapiens ATP synthase, H+ transporting, mitochondrial F0 complex, su NM 0010020; Homo sapiens complement component 4B, centromeric (C4B), mRNA NM_0010020; Homo sapiens ATP synthase, H+ transporting, mitochondrial F0 complex, su NM_0010020; Homo sapiens hematological and neurological expressed 1 (HN1), transcript NM 0010020; Homo sapiens hematological and neurological expressed 1 (HN1), transcript NM_0010020: Homo sapiens defensin, beta 108 (DEFB108), mRNA NM 0010020; Homo sapiens astacin-like metalloendopeptidase (M12 family) (ASTL), mRN, NM_0010022; Homo sapiens kallikrein 2, prostatic (KLK2), transcript variant 2, mRNA NM_0010022: Homo sapiens kallikrein 2, prostatic (KLK2), transcript variant 3, mRNA NM 0010022; Homo sapiens RAB11 family interacting protein 1 (class I) (RAB11FIP1), trar NM 0010022: Homo sapiens sodium channel modifier 1 (SCNM1), transcript variant 2, mRI NM 0010022: Homo sapiens serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antij NM_0010022: Homo sapiens serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antil NM_0010022 Homo sapiens aftiphilin protein (AFTIPHILIN), transcript variant 3, mRNA NM_0010022 Homo sapiens APC11 anaphase promoting complex subunit 11 homolog (ye NM_0010022 Homo sapiens APC11 anaphase promoting complex subunit 11 homolog (ye NM_0010022 Homo sapiens APC11 anaphase promoting complex subunit 11 homolog (ye NM_0010022 Homo sapiens APC11 anaphase promoting complex subunit 11 homolog (ye NM 0010022 Homo sapiens APC11 anaphase promoting complex subunit 11 homolog (ye NM 0010022 Homo sapiens APC11 anaphase promoting complex subunit 11 homolog (ye NM 0010022! Homo sapiens ADP-ribosylation-like factor 6 interacting protein 4 (ARL6IP4), NM 0010022! Homo sapiens ADP-ribosylation-like factor 6 interacting protein 4 (ARL6IP4), NM 0010022! Homo sapiens SMT3 suppressor of mif two 3 homolog 4 (yeast) (SUMO4), m NM_0010022! Homo sapiens ATP synthase, H+ transporting, mitochondrial F0 complex, su NM_0010022! Homo sapiens acyl-CoA:lysocardiolipin acyltransferase 1 (ALCAT1), transcrip NM_0010022! Homo sapiens ATP synthase, H+ transporting, mitochondrial F0 complex, su NM_0010022! Homo sapiens C1q domain containing 1 (C1QDC1), transcript variant 1, mRt NM_0010022 Homo sapiens chromosome 9 open reading frame 58 (C9orf58), transcript ve NM_0010022(Homo sapiens zinc finger, FYVE domain containing 27 (ZFYVE27), transcrip NM_0010022 Homo sapiens zinc finger, FYVE domain containing 27 (ZFYVE27), transcrip NM_0010022(Homo sapiens epithelial stromal interaction 1 (breast) (EPSTI1), mRNA NM 0010022 Homo sapiens c-mir, cellular modulator of immune recognition (MIR), transcr NM 0010022 Homo sapiens c-mir, cellular modulator of immune recognition (MIR), transcr NM 0010022 Homo sapiens exosome component 3 (EXOSC3), transcript variant 2, mRNA NM 0010022 Homo sapiens Fc fragment of IgG, low affinity Ilb, receptor for (CD32) (FCGF NM 0010022 Homo sapiens Fc fragment of IgG, low affinity Ilb, receptor for (CD32) (FCGF NM_0010022 Homo sapiens Fc fragment of IgG, low affinity Ilb, receptor for (CD32) (FCGF NM 0010022! Homo sapiens putative NFkB activating protein 373 (FLJ23091), transcript ve

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NM_0010022! Homo sapiens flavin containing monooxygenase 3 (FMO3), transcript variant
NM_0010022! Homo sapiens GATA binding protein 3 (GATA3), transcript variant 1, mRNA
NM 0010022! Homo sapiens golgi autoantigen, golgin subfamily a, 7 (GOLGA7), transcript
NM_0010027! Homo sapiens HIRA interacting protein 5 (HIRIP5), transcript variant 2, mRN
NM_0010027! Homo sapiens HIRA interacting protein 5 (HIRIP5), transcript variant 3, mRN
NM 0010027! Homo sapiens HIRA interacting protein 5 (HIRIP5), transcript variant 4, mRN
NM_0010027! Homo sapiens PTPN13-like, Y-linked, centromeric (PRY), mRNA
NM_0010027! Homo sapiens chromosome 10 open reading frame 78 (C10orf78), transcript
NM_0010027(Homo sapiens basic charge, Y-linked, 2 (BPY2), mRNA
NM_0010027(Homo sapiens basic charge, Y-linked, 2 (BPY2), mRNA
NM_0010027(Homo sapiens DnaJ (Hsp40) homolog, subfamily B, member 12 (DNAJB12),
NM_0010027! Homo sapiens multiple C2-domains with two transmembrane regions 1 (MC1
NM_0010027! Homo sapiens SMC4 structural maintenance of chromosomes 4-like 1 (yeas)
NM 0010028 Homo sapiens SMC4 structural maintenance of chromosomes 4-like 1 (yeas
NM_0010028 Homo sapiens phosphodiesterase 4D interacting protein (myomegalin) (PDE
NM_0010028 Homo sapiens phosphodiesterase 4D interacting protein (myornegalin) (PDE
NM_0010028 Homo sapiens phosphodiesterase 4D interacting protein (myomegalin) (PDE
NM_0010028 Homo sapiens RAB11 family interacting protein 1 (class I) (RAB11FIP1), trar
NM_0010028 Homo sapiens hypothetical protein LOC126208 (LOC126208), mRNA
NM_0010028: Homo sapiens phosphatidylinositol (4,5) bisphosphate 5-phosphatase, A (PII
NM_0010028; Homo sapiens protein kinase, lysine deficient 3 (PRKWNK3), transcript varia
NM_0010028, Homo sapiens DKFZp434A0131 protein (DKFZP434A0131), transcript variar
NM_0010028, Homo sapiens myosin, light polypeptide 4, alkali; atrial, embryonic (MYL4), tr
NM_0010028 Homo sapiens suppressor of hairy wing homolog 4 (Drosophila) (SUHW4), tr
NM_0010028 Homo sapiens suppressor of hairy wing homolog 4 (Drosophila) (SUHW4), tr
NM_0010028 Homo sapiens suppressor of hairy wing homolog 4 (Drosophila) (SUHW4), tr
NM 0010028 Homo sapiens CTF8, chromosome transmission fidelity factor 8 homolog (S.
NM 0010028 Homo sapiens lymphocyte antigen 6 complex, locus G5C (LY6G5C), transcri
NM_0010028 Homo sapiens lymphocyte antigen 6 complex, locus G5C (LY6G5C), transcri
NM_0010028! Homo sapiens annexin A2 (ANXA2), transcript variant 2, mRNA
NM_0010028! Homo sapiens annexin A2 (ANXA2), transcript variant 1, mRNA
NM_0010028 Homo sapiens BTB (POZ) domain containing 7 (BTBD7), transcript variant 1.
NM 0010028 Homo sapiens Rho guanine nucleotide exchange factor (GEF) 5 (ARHGEF5)
NM_0010028i Homo sapiens chromosome 22 open reading frame 14 (C22orf14), transcript
NM_0010028' Homo sapiens chromosome 22 open reading frame 18 (C22orf18), transcript
NM_0010028 Homo sapiens chromosome 22 open reading frame 19 (C22orf19), transcript
NM_0010028 Homo sapiens chromosome 22 open reading frame 19 (C22orf19), transcript
NM_0010028' Homo sapiens chromosome 22 open reading frame 19 (C22orf19), transcript
NM_0010028 Homo sapiens chromosome 22 open reading frame 2 (C22orf2), transcript ve
NM_0010028 Homo saplens phosphatidylinositol-3-phosphate/phosphatidylinositol 5-kinas
NM_0010029 Homo sapiens hypothetical protein FLJ31052 (FLJ31052), mRNA
NM_0010029 Homo sapiens olfactory receptor, family 8, subfamily G, member 1 (OR8G1P
NM 0010029 Homo sapiens X Kell blood group precursor-related, Y-linked 2 (XKRY2), mR
NM_0010029 Homo saplens olfactory receptor, family 8, subfamily K, member 1 (OR8K1),
NM 0010029 Homo sapiens KIAA0553 protein (KIAA0553), mRNA
NM_0010029 Homo sapiens cytochrome P450, family 2, subfamily D, polypeptide 7 pseudo
NM_0010029 Homo sapiens G protein-coupled receptor 139 (GPR139), mRNA
NM_0010029 Homo sapiens chromosome 9 open reading frame 115 (C9orf115), mRNA
NM_0010029 Homo sapiens potassium channel tetramerisation domain containing 11 (KC
NM_0010029 Homo sapiens insulin growth factor-like family member 2 (IGFL2), mRNA
NM_0010029 Homo sapiens H2B histone family, member W, testis-specific (H2BFWT), mF
NM_0010029 Homo sapiens olfactory receptor, family 8, subfamily D, member 1 (OR8D1),
NM_0010029 Homo sapiens olfactory receptor, family 8, subfamily D, member 2 (OR8D2),
NM 0010029 Homo sapiens hypothetical protein LOC285016 (LOC285016), mRNA
NM 0010029: Homo sapiens protein expressed in prostate, ovary, testis, and placenta 8 (P
NM 0010029; Homo sapiens adenylate kinase 3-like 2 (AK3L2), mRNA
NM_0010029: Homo sapiens similar to PM5 (FLJ43542), mRNA
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NM 0010029: Homo sapiens insulin growth factor-like family member 4 (IGFL4), mRNA NM_0010029. Homo sapiens adaptor-related protein complex 3, sigma 1 subunit (AP3S1), NM 0010029 Homo sapiens olfactory receptor, family 5, subfamily AP, member 2 (OR5AP NM_0010029; Homo sapiens TWIST neighbor (TWISTNB), mRNA NM_0010033! Homo sapiens Bicaudal D homolog 1 (Drosophila) (BICD1), transcript variant NM_0010033! Homo sapiens DKFZp451A211 protein (DKFZp451A211), mRNA NM_0010034l Homo sapiens calcium channel, voltage-dependent, alpha 11 subunit (CACN, NM_0010034 Homo sapiens olfactory receptor, family 56, subfamily A, member 3 (OR56A NM_0010036! Homo sapiens protein phosphatase 2, regulatory subunit B, delta isoform (PI NM_0010036l Homo sapiens similar to hypothetical protein Y97E10AL.1 (DKFZp761P211), NM_0010036 Homo sapiens chromosome 18 open reading frame 1 (C18orf1), transcript ve NM_0010036 Homo sapiens chromosome 18 open reading frame 1 (C18orf1), transcript ve NM_0010036 Homo sapiens leptin receptor (LEPR), transcript variant 2, mRNA NM_0010036i Homo sapiens leptin receptor (LEPR), transcript variant 3, mRNA NM_001079 Homo sapiens zeta-chain (TCR) associated protein kinase 70kDa (ZAP70), t NM_001132 Homo sapiens AFG3 ATPase family gene 3-like 1 (yeast) (AFG3L1), mRNA NM_001222 Homo sapiens calcium/calmodulin-dependent protein kinase (CaM kinase) II NM_001369 Homo sapiens dynein, axonemal, heavy polypeptide 5 (DNAH5), mRNA NM_001376 Homo sapiens dynein, cytoplasmic, heavy polypeptide 1 (DNCH1), mRNA NM_001378 Homo sapiens dynein, cytoplasmic, intermediate polypeptide 2 (DNCI2), mRI NM_001410 Homo sapiens EGF-like-domain, multiple 4 (EGFL4), mRNA NM_001547 Homo sapiens interferon-induced protein with tetratricopeptide repeats 2 (IFI NM_001556 Homo sapiens inhibitor of kappa light polypeptide gene enhancer in B-cells, I NM_001636 Homo sapiens solute carrier family 25 (mitochondrial carrier; adenine nucleo NM 001763 Homo sapiens CD1A antigen, a polypeptide (CD1A), mRNA NM 001810 Homo sapiens centromere protein B, 80kDa (CENPB), mRNA NM 001931 Homo sapiens dihydrolipoamide S-acetyltransferase (E2 component of pyruv Homo sapiens dual specificity phosphatase 7 (DUSP7), mRNA NM 001947 Homo sapiens esterase D/formylglutathione hydrolase (ESD), mRNA NM 001984 Homo sapiens ets variant gene 4 (E1A enhancer binding protein, E1AF) (ET NM 001986 NM 002154 Homo sapiens heat shock 70kDa protein 4 (HSPA4), transcript variant 1, mR Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 1 NM_002242 NM_002348 Homo sapiens lymphocyte antigen 9 (LY9), mRNA Homo sapiens Meis1, myeloid ecotropic viral integration site 1 homolog 2 (m NM 002399 NM 002404 Homo sapiens microfibrillar-associated protein 4 (MFAP4), mRNA NM 002471 Homo sapiens myosin, heavy polypeptide 6, cardiac muscle, alpha (cardiomy NM_002498 Homo sapiens NIMA (never in mitosis gene a)-related kinase 3 (NEK3), trans NM_002523 Homo sapiens neuronal pentraxin II (NPTX2), mRNA NM 002596 Homo sapiens PCTAIRE protein kinase 3 (PCTK3), transcript variant 3, mRN NM_002603 Homo saplens phosphodiesterase 7A (PDE7A), transcript variant 1, mRNA NM_002604 Homo sapiens phosphodiesterase 7A (PDE7A), transcript variant 2, mRNA Homo sapiens phosphodiesterase 8A (PDE8A), transcript variant 1, mRNA NM_002605 Homo sapiens postmeiotic segregation increased 2-like 2 (PMS2L2), mRNA NM 002679 NM_002735 Homo sapiens protein kinase, cAMP-dependent, regulatory, type I, beta (PRI NM_002746 Homo sapiens mitogen-activated protein kinase 3 (MAPK3), mRNA NM_002791 Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 6 (PSI NM_002798 Homo sapiens proteasome (prosome, macropain) subunit, beta type, 6 (PSN NM_002972 Homo sapiens SET binding factor 1 (SBF1), transcript variant 1, mRNA NM 002974 Homo sapiens serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), NM 002998 Homo sapiens syndecan 2 (heparan sulfate proteoglycan 1, cell surface-asso NM 003013 Homo sapiens secreted frizzled-related protein 2 (SFRP2), mRNA NM 003047 Homo sapiens solute carrier family 9 (sodium/hydrogen exchanger), isoform Homo sapiens SRY (sex determining region Y)-box 2 (SOX2), mRNA NM 003106 Homo sapiens Sp3 transcription factor (SP3), mRNA NM_003111 Homo sapiens synaptophysin (SYP), mRNA NM_003179 Homo sapiens transcription elongation factor A (SII), 3 (TCEA3), mRNA NM_003196 NM_003200 Homo sapiens transcription factor 3 (E2A immunoglobulin enhancer binding

NM_003302	Homo sapiens thyroid hormone receptor interactor 6 (TRIP6), mRNA
NM_003415	Homo sapiens zinc finger protein 268 (ZNF268), mRNA
NM_003444	Homo sapiens zinc finger protein 154 (pHZ-92) (ZNF154), mRNA
NM_003502	Homo sapiens axin 1 (AXIN1), transcript variant 1, mRNA
NM_003517	Homo sapiens histone 2, H2ac (HIST2H2AC), mRNA
NM_003575	Homo sapiens zinc finger protein 282 (ZNF282), mRNA
NM_003598	Homo sapiens TEA domain family member 2 (TEAD2), mRNA
NM_003638	Homo sapiens integrin, alpha 8 (ITGA8), mRNA
NM 003660	Homo sapiens protein tyrosine phosphatase, receptor type, f polypeptide (PT
NM_003677	Homo sapiens density-regulated protein (DENR), mRNA
NM 003700	Homo sapiens olfactory receptor, family 2, subfamily D, member 2 (OR2D2),
NM 003719	Homo sapiens phosphodiesterase 8B (PDE8B), mRNA
NM_003724	Homo sapiens jerky homolog (mouse) (JRK), mRNA
NM 003741	Homo sapiens chordin (CHRD), transcript variant 1, mRNA
NM_003817	Homo sapiens a disintegrin and metalloproteinase domain 7 (ADAM7), mRN.
NM 003818	Homo sapiens CDP-diacylglycerol synthase (phosphatidate cytidylyltransfera
NM 003828	Homo sapiens myotubularin related protein 1 (MTMR1), transcript variant 1, I
NM_003845	Homo sapiens dual-specificity tyrosine-(Y)-phosphorylation regulated kinase
NM 003848	Homo sapiens succinate-CoA ligase, GDP-forming, beta subunit (SUCLG2),
NM 003858	Homo sapiens cyclin K (CCNK), mRNA
NM_003898	Homo sapiens synaptojanin 2 (SYNJ2), mRNA
NM 003907	Homo sapiens synapojamin 2 (61702), mittod Homo sapiens eukaryotic translation initiation factor 2B, subunit 5 epsilon, 82
NM 003957	Homo sapiens editaryotic translation initiation ractor 2B, subtritt 3 epsilon, oz
NM 003959	Homo sapiens serificultie times 25 (51125), mm/4 Homo sapiens huntingtin interacting protein-1-related (HIP1R), mRNA
NM 003972	Homo sapiens BTAF1 RNA polymerase II, B-TFIID transcription factor-assoc
NM 004080	Homo sapiens BTALT RIVA polymerase II, B-TFIID transcription factor-assoc Homo sapiens diacylglycerol kinase, beta 90kDa (DGKB), transcript variant 1
NM_004000	
NM_004097	Homo sapiens empty spiracles homolog 1 (Drosophila) (EMX1), mRNA
NM 004116	Homo sapiens forkhead-like 18 (Drosophila) (FKHL18), mRNA
_	Homo sapiens iron-responsive element binding protein 2 (IREB2), mRNA
NM_004200	Homo sapiens synaptotagmin VII (SYT7), mRNA
NM_004220	Homo sapiens zinc finger protein 213 (ZNF213), mRNA
NM_004241	Homo sapiens jumonji domain containing 1C (JMJD1C), mRNA
NM_004242	Homo sapiens high mobility group nucleosomal binding domain 3 (HMGN3),
NM_004319	Homo sapiens astrotactin (ASTN), transcript variant 1, mRNA
NM_004439	Homo sapiens EphA5 (EPHA5), transcript variant 1, mRNA
NM_004498	Homo sapiens one cut domain, family member 1 (ONECUT1), mRNA
NM_004650	Homo sapiens GS2 gene (DXS1283E), mRNA
NM_004685	Homo sapiens myotubularin related protein 6 (MTMR6), mRNA
NM_004691	Homo sapiens ATPase, H+ transporting, lysosomal 38kDa, V0 subunit d isof
NM_004764	Homo sapiens piwi-like 1 (Drosophila) (PIWIL1), mRNA
NM_004773	Homo sapiens thyroid hormone receptor interactor 3 (TRIP3), mRNA
NM_004816	Homo sapiens chromosome 9 open reading frame 61 (C9orf61), mRNA
NM_004840	Homo sapiens Rac/Cdc42 guanine nucleotide exchange factor (GEF) 6 (ARI
NM_004884	Homo sapiens putative neuronal cell adhesion molecule (PUNC), mRNA
NM_004946	Homo sapiens dedicator of cytokinesis 2 (DOCK2), mRNA
NM_004947	Homo sapiens dedicator of cytokinesis 3 (DOCK3), mRNA
NM_005054	Homo sapiens RAN binding protein 2-like 1 (RANBP2L1), transcript variant 1
NM_005105	Homo sapiens RNA binding motif protein 8A (RBM8A), mRNA
NM_005126	Homo sapiens nuclear receptor subfamily 1, group D, member 2 (NR1D2), m
NM_005140	Homo sapiens cyclic nucleotide gated channel alpha 2 (CNGA2), mRNA
NM_005144	Homo sapiens hairless homolog (mouse) (HR), transcript variant 1, mRNA
NM_005153	Homo sapiens ubiquitin specific protease 10 (USP10), mRNA
NM_005202	Homo sapiens collagen, type VIII, alpha 2 (COL8A2), mRNA
NM_005240	Homo sapiens ets variant gene 3 (ETV3), mRNA
NM_005241	Homo sapiens ecotropic viral integration site 1 (EVI1), mRNA
NM_005250	Homo sapiens forkhead box L1 (FOXL1), mRNA
NM_005272	Homo sapiens guanine nucleotide binding protein (G protein), alpha transduc

NM_005278	Homo sapiens glycoprotein M6B (GPM6B), transcript variant 3, mRNA
NM_005349	Homo sapiens recombining binding protein suppressor of hairless (Drosophil
NM 005376	Homo sapiens v-myc myelocytomatosis viral oncogene homolog 1, lung carc
NM 005407	Homo sapiens sal-like 2 (Drosophila) (SALL2), mRNA
NM_005482	Homo sapiens phosphatidylinositol glycan, class K (PIGK), mRNA
NM_005487	Homo sapiens high-mobility group protein 2-like 1 (HMG2L1), mRNA
NM 005533	Homo sapiens interferon-induced protein 35 (IFI35), mRNA
NM 005559	Homo sapiens laminin, alpha 1 (LAMA1), mRNA
NM_005595	Homo sapiens nuclear factor I/A (NFIA), mRNA
NM_005650	Homo sapiens transcription factor 20 (AR1) (TCF20), transcript variant 1, mR
NM_005669	Homo sapiens chromosome 5 open reading frame 18 (C5orf18), mRNA
NM 005680	Homo sapiens TATA box binding protein (TBP)-associated factor, RNA polyn
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NM_005702	Homo sapiens Era G-protein-like 1 (E. coli) (ERAL1), mRNA Homo sapiens programmed cell death 7 (PDCD7), mRNA
NM_005707	
NM_005779	Homo sapiens lipoma HMGIC fusion partner-like 2 (LHFPL2), mRNA
NM_005788	Homo sapiens HMT1 hnRNP methyltransferase-like 3 (S. cerevisiae) (HRMT
NM_005791	Homo sapiens M-phase phosphoprotein 10 (U3 small nucleolar ribonucleopri
NM_005840	Homo sapiens sprouty homolog 3 (Drosophila) (SPRY3), mRNA
NM_005841	Homo sapiens sprouty homolog 1, antagonist of FGF signaling (Drosophila)
NM_005848	Homo sapiens c-myc promoter binding protein (MYCPBP), mRNA
NM_005914	Homo sapiens MCM4 minichromosome maintenance deficient 4 (S. cerevisia
NM_005942	Homo sapiens molybdenum cofactor synthesis 1 (MOCS1), transcript variant
NM_005943	Homo sapiens molybdenum cofactor synthesis 1 (MOCS1), transcript variant
NM_005946	Homo sapiens metallothionein 1A (functional) (MT1A), mRNA
NM_005947	Homo sapiens metallothionein 1B (functional) (MT1B), mRNA
NM_005949	Homo sapiens metallothionein 1F (functional) (MT1F), mRNA
NM_005964	Homo sapiens myosin, heavy polypeptide 10, non-muscle (MYH10), mRNA
NM_005984	Homo sapiens solute carrier family 25 (mitochondrial carrier; citrate transport
NM_005995	Homo sapiens T-box 10 (TBX10), mRNA
NM_006036	Homo sapiens putative prolyl oligopeptidase (KIAA0436), mRNA
NM_006040	Homo sapiens heparan sulfate (glucosamine) 3-O-sulfotransferase 4 (HS3S1
NM_006062	
_	Homo sapiens SMYD family member 5 (SMYD5), mRNA
NM_006091	Homo sapiens coronin, actin binding protein, 2B (CORO2B), mRNA
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NM_006091 NM_006108 NM_006133 NM_006151 NM_006154 NM_006175 NM_006210 NM_006266 NM_006277 NM_006452 NM_006591 NM_006630 NM_006631 NM_006631 NM_006635 NM_006642 NM_006642	Homo sapiens coronin, actin binding protein, 2B (CORO2B), mRNA Homo sapiens spondin 1, extracellular matrix protein (SPON1), mRNA Homo sapiens chromosome 11 open reading frame 11 (C11orf11), mRNA Homo sapiens lactoperoxidase (LPO), mRNA Homo sapiens neural precursor cell expressed, developmentally down-regulated homo sapiens natriuretic peptide precursor A (NPPA), mRNA Homo sapiens nebulin-related anchoring protein (NRAP), transcript variant 1 Homo sapiens paternally expressed 3 (PEG3), mRNA Homo sapiens serine (or cysteine) proteinase inhibitor, clade E (nexin, plasm Homo sapiens ral guanine nucleotide dissociation stimulator (RALGDS), mRI Homo sapiens intersectin 2 (ITSN2), transcript variant 1, mRNA Homo sapiens phosphoribosylaminoimidazole carboxylase, phosphoribosyla Homo sapiens zinc finger protein 138 (clone pHZ-32) (ZNF138), mRNA Homo sapiens polymerase (DNA-directed), delta 3, accessory subunit (POLI Homo sapiens zinc finger protein 234 (ZNF234), mRNA Homo sapiens zinc finger protein 266 (ZNF266), mRNA Homo sapiens zinc finger protein 272 (ZNF272), mRNA Homo sapiens serologically defined colon cancer antigen 8 (SDCCAG8), mR Homo sapiens AT rich interactive domain 5A (MRF1-like) (ARID5A), transcript Homo sapiens sphingomyelin phosphodiesterase, acid-like 3A (SMPDL3A), I
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NM_006091 NM_006108 NM_006133 NM_006151 NM_006154 NM_006172 NM_006210 NM_006216 NM_006266 NM_006277 NM_006452 NM_006591 NM_006617 NM_006630 NM_006631 NM_006635 NM_006642 NM_006647 NM_006647 NM_006673 NM_0066714	Homo sapiens coronin, actin binding protein, 2B (CORO2B), mRNA Homo sapiens spondin 1, extracellular matrix protein (SPON1), mRNA Homo sapiens chromosome 11 open reading frame 11 (C11orf11), mRNA Homo sapiens lactoperoxidase (LPO), mRNA Homo sapiens neural precursor cell expressed, developmentally down-regulated homo sapiens natriuretic peptide precursor A (NPPA), mRNA Homo sapiens nebulin-related anchoring protein (NRAP), transcript variant 1 Homo sapiens paternally expressed 3 (PEG3), mRNA Homo sapiens serine (or cysteine) proteinase inhibitor, clade E (nexin, plasm Homo sapiens ral guanine nucleotide dissociation stimulator (RALGDS), mRI Homo sapiens intersectin 2 (ITSN2), transcript variant 1, mRNA Homo sapiens phosphoribosylaminoimidazole carboxylase, phosphoribosyla Homo sapiens zinc finger protein 138 (clone pHZ-32) (ZNF138), mRNA Homo sapiens polymerase (DNA-directed), delta 3, accessory subunit (POLI Homo sapiens zinc finger protein 234 (ZNF234), mRNA Homo sapiens zinc finger protein 266 (ZNF266), mRNA Homo sapiens zinc finger protein 272 (ZNF272), mRNA Homo sapiens serologically defined colon cancer antigen 8 (SDCCAG8), mR Homo sapiens NADPH oxidase activator 1 (NOXA1), mRNA Homo sapiens AT rich interactive domain 5A (MRF1-like) (ARID5A), transcription sapiens microphthalmia-associated transcription factor (MITF), transcription sapiens protein serine kinase H1 (PSKH1), mRNA
NM_006091 NM_006108 NM_006133 NM_006151 NM_006154 NM_006172 NM_006210 NM_006216 NM_006266 NM_006277 NM_006452 NM_006591 NM_006631 NM_006631 NM_006631 NM_006635 NM_006647 NM_006647 NM_006673 NM_006714 NM_006722	Homo sapiens coronin, actin binding protein, 2B (CORO2B), mRNA Homo sapiens spondin 1, extracellular matrix protein (SPON1), mRNA Homo sapiens chromosome 11 open reading frame 11 (C11orf11), mRNA Homo sapiens lactoperoxidase (LPO), mRNA Homo sapiens neural precursor cell expressed, developmentally down-regular homo sapiens natriuretic peptide precursor A (NPPA), mRNA Homo sapiens nebulin-related anchoring protein (NRAP), transcript variant 1 Homo sapiens paternally expressed 3 (PEG3), mRNA Homo sapiens serine (or cysteine) proteinase inhibitor, clade E (nexin, plasm homo sapiens ral guanine nucleotide dissociation stimulator (RALGDS), mRI Homo sapiens intersectin 2 (ITSN2), transcript variant 1, mRNA Homo sapiens phosphoribosylaminoimidazole carboxylase, phosphoribosyla homo sapiens zinc finger protein 138 (clone pHZ-32) (ZNF138), mRNA Homo sapiens polymerase (DNA-directed), delta 3, accessory subunit (POLI homo sapiens zinc finger protein 234 (ZNF234), mRNA Homo sapiens zinc finger protein 266 (ZNF266), mRNA Homo sapiens zinc finger protein 272 (ZNF272), mRNA Homo sapiens serologically defined colon cancer antigen 8 (SDCCAG8), mR Homo sapiens NADPH oxidase activator 1 (NOXA1), mRNA Homo sapiens AT rich interactive domain 5A (MRF1-like) (ARID5A), transcription sapiens microphthalmia-associated transcription factor (MITF), transcriptions and transcription factor (MITF), transcriptions are protein matrix protein (MITF), transcription factor (MITF), transcriptions appears and transcriptions and transcriptions appears and tran

NM_006828	Homo sapiens activating signal cointegrator 1 complex subunit 3 (ASCC3), n
NM_006832	Homo sapiens pleckstrin homology domain containing, family C (with FERM
NM_006857	Homo sapiens putative nucleic acid binding protein RY-1 (RY1), mRNA
NM_006859	Homo sapiens lipoic acid synthetase (LIAS), nuclear gene encoding mitocho
NM_006897	Homo sapiens homeo box C9 (HOXC9), mRNA
NM_006909	Homo sapiens Ras protein-specific guanine nucleotide-releasing factor 2 (R/
NM_006916	Homo sapiens ribulose-5-phosphate-3-epimerase (RPE), transcript variant 2.
NM_006920	Homo sapiens sodium channel, voltage-gated, type I, alpha (SCN1A), mRNA
NM_006939	Homo sapiens son of sevenless homolog 2 (Drosophila) (SOS2), mRNA
NM_006955	Homo sapiens zinc finger protein 11b (KOX 2) (ZNF11B), mRNA
NM_006956	Homo sapiens zinc finger protein 12 (KOX 3) (ZNF12), mRNA
NM_006959	Homo sapiens zinc finger protein 17 (HPF3, KOX 10) (ZNF17), mRNA
NM_006961	Homo sapiens zinc finger protein 19 (KOX 12) (ZNF19), mRNA
NM_006969	Homo sapiens zinc finger protein 28 (KOX 24) (ZNF28), mRNA
NM_006973	Homo sapiens zinc finger protein 32 (KOX 30) (ZNF32), mRNA
NM_006974	Homo sapiens zinc finger protein 33a (KOX 31) (ZNF33A), mRNA
NM_006996	Homo sapiens solute carrier family 19 (thiamine transporter), member 2 (SL(
NM_007001	Homo sapiens solute carrier family 35, member D2 (SLC35D2), mRNA
NM_007010	Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 52 (DDX52), transc
NM_007041	Homo sapiens arginyltransferase 1 (ATE1), transcript variant 2, mRNA
NM_007078	Homo sapiens LIM domain binding 3 (LDB3), mRNA
NM_007130	Homo sapiens zinc finger protein 41 (ZNF41), transcript variant 1, mRNA
NM_007131	Homo saplens zinc finger protein 75 (D8C6) (ZNF75), mRNA
NM_007135	Homo sapiens zinc finger protein 79 (pT7) (ZNF79), mRNA
NM_007137	Homo sapiens zinc finger protein 81 (HFZ20) (ZNF81), mRNA
NM_007139	Homo sapiens zinc finger protein 92 (HTF12) (ZNF92), mRNA
NM_007149	Homo sapiens zinc finger protein 184 (Kruppel-like) (ZNF184), mRNA
NM_007156	Homo sapiens zinc finger, X-linked, duplicated A (ZXDA), mRNA
NM_007157	Homo sapiens zinc finger, X-linked, duplicated B (ZXDB), mRNA
NM_007162	Homo sapiens transcription factor EB (TFEB), mRNA
NM_007174	Homo sapiens citron (rho-interacting, serine/threonine kinase 21) (CIT), mRN
NM_007189	Homo sapiens ATP-binding cassette, sub-family F (GCN20), member 2 (ABC
NM_007224	Homo sapiens neurexophilin 4 (NXPH4), mRNA
NM_007225	Homo sapiens neurexophilin 3 (NXPH3), mRNA
NM_007243	Homo sapiens nurim (nuclear envelope membrane protein) (NRM), mRNA
NM_007261	Homo sapiens leukocyte membrane antigen (CMRF-35H), mRNA
NM_007270	Homo sapiens FK506 binding protein 9, 63 kDa (FKBP9), mRNA
NM_007277	Homo sapiens SEC6-like 1 (S. cerevisiae) (SEC6L1), mRNA
NM_007280	Homo sapiens Opa-interacting protein 5 (OIP5), mRNA
NM_007349	Homo sapiens PAX transcription activation domain interacting protein 1 like (
NM_007356	Homo sapiens laminin, beta 4 (LAMB4), mRNA
NM_012073	Homo sapiens chaperonin containing TCP1, subunit 5 (epsilon) (CCT5), mRI
NM_012154	Homo sapiens eukaryotic translation initiation factor 2C, 2 (EIF2C2), mRNA
NM_012156 NM_012167	Homo sapiens erythrocyte membrane protein band 4.1-like 1 (EPB41L1), trai
	Homo sapiens F-box protein 11 (FBXO11), transcript variant 3, mRNA
NM_012174 NM_012184	Homo sapiens F-box and WD-40 domain protein 8 (FBXW8), transcript varia
NM_012212	Homo sapiens forkhead box D4 like 1 (FOXD4L1), mRNA
NM_012212	Homo sapiens leukotriene B4 12-hydroxydehydrogenase (LTB4DH), mRNA Homo sapiens NIMA (never in mitosis gene a)-related kinase 1 (NEK1), mRN
NM_012232	Homo sapiens rolling (never in milesis gene a)-related kinase 1 (NEK1), mRNA Homo sapiens polymerase I and transcript release factor (PTRF), mRNA
NM 012235	Homo sapiens SREBP CLEAVAGE-ACTIVATING PROTEIN (SCAP), mRNA
NM 012271	Homo sapiens huntingtin interacting protein B (HYPB), transcript variant 2, m
NM_012271	Homo sapiens Huntingtin interacting protein C (HYPC), mRNA
NM 012284	Homo sapiens rotassium voltage-gated channel, subfamily H (eag-related), i
NM_012292	Homo sapiens potassium voltage-gated charmel, subfarmly H (eag-related), T
NM_012305	Homo sapiens adaptor-related protein complex 2, alpha 2 subunit (AP2A2), r
NM_012309	Homo sapiens SH3 and multiple ankyrin repeat domains 2 (SHANK2), transc
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NM_012315	Homo sapiens kallikrein 9 (KLK9), mRNA
NM_012335	Homo sapiens myosin IF (MYO1F), mRNA
NM_012363	Homo sapiens olfactory receptor, family 1, subfamily N, member 1 (OR1N1),
NM_012364	Homo sapiens olfactory receptor, family 1, subfamily Q, member 1 (OR1Q1),
NM_012367	Homo sapiens olfactory receptor, family 2, subfamily B, member 6 (OR2B6),
NM_012374	Homo sapiens olfactory receptor, family 4, subfamily D, member 1 (OR4D1),
NM_012378	Homo sapiens olfactory receptor, family 8, subfamily B, member 8 (OR8B8),
NM_012393	Homo sapiens phosphoribosylformylglycinamidine synthase (FGAR amidotra
NM_012398	Homo sapiens phosphatidylinositol-4-phosphate 5-kinase, type I, gamma (PI
NM_012416	Homo sapiens RAN binding protein 6 (RANBP6), mRNA
NM_012477	Homo sapiens WW domain binding protein 1 (WBP1), mRNA
NM_012478	Homo sapiens WW domain binding protein 2 (WBP2), mRNA
NM_013304	Homo sapiens zinc finger, DHHC domain containing 1 (ZDHHC1), mRNA
NM_013321	Homo sapiens sorting nexin 8 (SNX8), mRNA
NM_013373	Homo sapiens zinc finger, DHHC domain containing 8 (ZDHHC8), mRNA
NM_014010	Homo sapiens astrotactin 2 (ASTN2), transcript variant 1, mRNA
NM_014014	Homo sapiens U5 snRNP-specific protein, 200-KD (U5-200KD), mRNA
NM_014089	Homo sapiens nucleoporin like 1 (NUPL1), mRNA
NM_014098	Homo sapiens peroxiredoxin 3 (PRDX3), nuclear gene encoding mitochondri
NM_014215	Homo sapiens insulin receptor-related receptor (INSRR), mRNA
NM_014220	Homo sapiens transmembrane 4 superfamily member 1 (TM4SF1), mRNA
NM_014224	Homo sapiens pepsinogen 5, group I (pepsinogen A) (PGA5), mRNA
NM_014243	Homo sapiens a disintegrin-like and metalloprotease (reprolysin type) with the
NM_014261	Homo sapiens TIR domain containing adaptor inducing interferon-beta (TRIF
NM_014282	Homo sapiens hyaluronan binding protein 4 (HABP4), mRNA
NM_014284	Homo sapiens neurochondrin (NCDN), mRNA
NM_014290	Homo sapiens tudor domain containing 7 (TDRD7), mRNA
NM_014301	Homo sapiens iron-sulfur cluster assembly enzyme (ISCU), mRNA
NM_014346	Homo sapiens chromosome 22 open reading frame 4 (C22orf4), mRNA
NM_014376	Homo sapiens cytoplasmic FMR1 interacting protein 2 (CYFIP2), mRNA
NM_014381	Homo sapiens mutL homolog 3 (E. coli) (MLH3), mRNA Homo sapiens proline-, glutamic acid-, leucine-rich protein 1 (PELP1), mRNA
NM_014389	Homo sapiens phosphatidylinositol (4,5) bisphosphate 5-phosphatase, A (PII
NM_014422	Homo sapiens N-acylsphingosine amidohydrolase (acid ceramidase)-like (At
NM_014435 NM_014441	Homo sapiens sialic acid binding Ig-like lectin 9 (SIGLEC9), mRNA
NM 014455	Homo sapiens zinc finger protein 364 (ZNF364), mRNA
NM_014460	Homo sapiens RNA-binding protein pippin (PIPPIN), mRNA
NM 014472	Homo sapiens chromosome 10 open reading frame 28 (C10orf28), mRNA
NM 014494	Homo sapiens trinucleotide repeat containing 6 (TNRC6), mRNA
NM_014507	Homo sapiens malonyl-CoA:acyl carrier protein transacylase (malonyltransfe
NM_014508	Homo sapiens apolipoprotein B mRNA editing enzyme, catalytic polypeptide-
NM_014508	Homo sapiens piccolo (presynaptic cytomatrix protein) (PCLO), transcript vai
NM_014562	Homo sapiens orthodenticle homolog 1 (Drosophila) (OTX1), mRNA
NM_014568	Homo sapiens UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylga
NM_014572	Homo sapiens LATS, large tumor suppressor, homolog 2 (Drosophila) (LATS
NM_014573	Homo sapiens hypothetical protein MAC30 (MAC30), mRNA
NM_014594	Homo sapiens zinc finger protein 354C (ZNF354C), mRNA
NM 014602	
NM_014603	Homo sapiens paraneoplastic antigen (HUMPPA), mRNA
NM 014607	
NM_014608	
NM_014611	Homo sapiens MDN1, midasin homolog (yeast) (MDN1), mRNA
NM 014613	Homo sapiens expressed in T-cells and eosinophils in atopic dermatitis (ETE
NM 014614	
NM 014615	Homo sapiens KIAA0182 protein (KIAA0182), mRNA
NM_014647	Homo sapiens limkain b1 (LKAP), transcript variant 1, mRNA
NM_014655	· · · · · · · · · · · · · · · · · · ·
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NM_014657	Homo sapiens KIAA0406 gene product (KIAA0406), mRNA
NM_014667	Homo sapiens vestigial like 4 (Drosophila) (VGLL4), mRNA
NM_014691	Homo sapiens aquarius homolog (mouse) (AQR), mRNA
NM_014697	Homo sapiens C-terminal PDZ domain ligand of neuronal nitric oxide synthas
NM_014701	Homo sapiens KIAA0256 gene product (KIAA0256), mRNA
NM_014756	Homo sapiens KIAA0097 gene product (ch-TOG), mRNA
NM_014798	Homo sapiens pleckstrin homology domain containing, family M (with RUN d
NM_014802	Homo sapiens KIAA0528 gene product (KIAA0528), mRNA
NM_014836	Homo sapiens Rho-related BTB domain containing 1 (RHOBTB1), transcript
NM_014839	Homo sapiens plasticity related gene 1 (LPPR4), mRNA
NM_014850	Homo sapiens SLIT-ROBO Rho GTPase activating protein 2 (SRGAP2), mR
NM_014854	Homo sapiens solute carrier family 35, member E2 (SLC35E2), mRNA
NM_014858	Homo sapiens cerebral protein 11 (HUCEP11), mRNA
NM_014881	Homo sapiens DNA cross-link repair 1A (PSO2 homolog, S. cerevisiae) (DCI
NM_014884	Homo saplens splicing factor, arginine/serine-rich 14 (SFRS14), mRNA
NM_014919	Homo sapiens Wolf-Hirschhorn syndrome candidate 1 (WHSC1), transcript v
NM_014955	Homo sapiens CGI-01 protein (CGI-01), transcript variant 2, mRNA
NM_014957	Homo sapiens KIAA0870 protein (KIAA0870), mRNA
NM_014974	Homo sapiens KIAA0934 (KIAA0934), mRNA
NM_014975	Homo sapiens microtubule associated serine/threonine kinase 1 (MAST1), m
NM_014982 NM_014989	Homo sapiens pecanex homolog (Drosophila) (PCNX), mRNA
NM 014991	Homo sapiens regulating synaptic membrane exocytosis 1 (RIMS1), transcriptions sapiens WD repeat and FYVE domain containing 3 (WDFY3), transcriptions are transcriptions.
NM_014991	Homo sapiens dishevelled associated activator of morphogenesis 1 (DAAM1
NM 014997	Homo sapiens KIAA0265 protein (KIAA0265), mRNA
NM_015000	Homo sapiens serine/threonine kinase 38 like (STK38L), mRNA
NM 015004	Homo sapiens exosome component 7 (EXOSC7), mRNA
NM_015008	Homo sapiens KIAA0779 protein (KIAA0779), mRNA
NM 015013	Homo sapiens amine oxidase (flavin containing) domain 2 (AOF2), mRNA
NM 015014	Homo sapiens KIAA0117 protein (KIAA0117), mRNA
NM_015015	Homo sapiens jumonji domain containing 2B (JMJD2B), mRNA
NM_015017	Homo sapiens ubiquitin specific protease 33 (USP33), transcript variant 1, m
NM_015018	Homo sapiens KIAA1117 (KIAA1117), mRNA
NM_015022	Homo saplens PDZ domain containing 3 (PDZK3), transcript variant 2, mRN/
NM_015027	Homo sapiens KIAA0251 protein (KIAA0251), mRNA
NM_015029	Homo sapiens processing of precursor 1, ribonuclease P/MRP subunit (S. ce
NM_015033	Homo sapiens formin binding protein 1 (FNBP1), mRNA
NM_015035	Homo sapiens zinc fingers and homeoboxes 3 (ZHX3), mRNA
NM_015037	Homo sapiens KIAA0913 (KIAA0913), mRNA
NM_015039	Homo sapiens nicotinamide nucleotide adenylyltransferase 2 (NMNAT2), trai
NM_015040	Homo sapiens phosphatidylinositol-3-phosphate/phosphatidylinositol 5-kinas
NM_015045	Homo sapiens KIAA0261 (KIAA0261), mRNA
NM_015047 NM_015050	Homo sapiens KIAA0090 protein (KIAA0090), mRNA
NM 015050	Homo sapiens KIAA0082 (KIAA0082), mRNA Homo sapiens HECT type E3 ubiquitin ligase (NEDL1), mRNA
NM_015055	Homo sapiens SWAP-70 protein (SWAP70), mRNA
NM_015059	Homo sapiens talin 2 (TLN2), mRNA
NM_015061	Homo sapiens jumonji domain containing 2C (JMJD2C), mRNA
NM_015065	Homo sapiens SLAC2-B (SLAC2-B), mRNA
NM_015066	Homo sapiens tripartite motif-containing 35 (TRIM35), transcript variant 1, ml
NM 015069	Homo sapiens zinc finger protein 423 (ZNF423), mRNA
NM_015076	Homo sapiens cyclin-dependent kinase (CDC2-like) 11 (CDK11), mRNA
NM_015078	Homo sapiens Rho family guanine-nucleotide exchange factor (KIAA0861), r
NM_015079	Homo sapiens KIAA1055 protein (KIAA1055), mRNA
NM_015085	Homo sapiens GTPase activating RANGAP domain-like 4 (GARNL4), mRNA
NM_015087	Homo sapiens spastic paraplegia 20, spartin (Troyer syndrome) (SPG20), ml
NM_015089	Homo sapiens p53-associated parkin-like cytoplasmic protein (PARC), mRN

NM_015091	Homo sapiens KIAA0423 (KIAA0423), mRNA
NM_015094	Homo sapiens hypermethylated in cancer 2 (HIC2), mRNA
NM_015099	Homo sapiens calmodulin binding transcription activator 2 (CAMTA2), mRNA
NM_015100	Homo sapiens pogo transposable element with ZNF domain (POGZ), transcr
NM_015102	Homo sapiens nephronophthisis 4 (NPHP4), mRNA
NM_015103	Homo sapiens plexin D1 (PLXND1), mRNA
NM_015106	Homo sapiens KIAA0809 protein (SRISNF2L), mRNA
NM 015107	Homo sapiens PHD finger protein 8 (PHF8), mRNA
NM 015110	Homo sapiens SMC5 structural maintenance of chromosomes 5-like 1 (yeas)
NM_015115	Homo sapiens KIAA0276 protein (KIAA0276), mRNA
NM 015116	Homo sapiens leucine-rich repeats and calponin homology (CH) domain con
NM 015117	Homo sapiens zinc finger CCCH type domain containing 3 (ZC3HDC3), mRN
NM 015120	Homo sapiens Alstrom syndrome 1 (ALMS1), mRNA
NM_015122	Homo sapiens FCH domain only 1 (FCHO1), mRNA
NM_015134	Homo sapiens myosin phosphatase-Rho interacting protein (M-RIP), mRNA
NM_015138	Homo sapiens KIAA0252 (KIAA0252), mRNA
NM 015141	Homo sapiens glycerol-3-phosphate dehydrogenase 1-like (GPD1L), mRNA
NM_015143	Homo sapiens methionyl aminopeptidase 1 (METAP1), mRNA
NM 015144	Homo sapiens zinc finger, CCHC domain containing 14 (ZCCHC14), mRNA
NM_015150	Homo sapiens raft-linking protein (RAFTLIN), mRNA
NM_015151	Homo sapiens chromosome 21 open reading frame 106 (C21orf106), transci
NM_015157	Homo sapiens pleckstrin homology-like domain, family B, member 1 (PHLDE
NM 015158	Homo saplens ankyrin repeat domain 15 (ANKRD15), transcript variant 1, ml
NM_015160	Homo sapiens peptidase (mitochondrial processing) alpha (PMPCA), nuclear
NM_015161	Homo sapiens ADP-ribosylation factor-like 6 interacting protein (ARL6IP), mi
NM_015167	Homo sapiens phosphatidylserine receptor (PTDSR), mRNA
NM_015170	Homo sapiens sulfatase 1 (SULF1), mRNA
NM_015171	Homo sapiens exportin 6 (XPO6), mRNA
NM_015172	Homo sapiens HBxAg transactivated protein 2 (XTP2), mRNA
NM_015173	Homo sapiens TBC1 (tre-2/USP6, BUB2, cdc16) domain family, member 1 (1
NM_015184	Homo sapiens phospholipase C-like 2 (PLCL2), mRNA
NM_015187	Homo sapiens KIAA0746 protein (KIAA0746), mRNA
NM_015190	Homo sapiens DnaJ (Hsp40) homolog, subfamily C, member 9 (DNAJC9), m
NM_015191	Homo sapiens salt-inducible serine/threonine kinase 2 (SIK2), mRNA
NM_015198	Homo sapiens cordon-bleu homolog (mouse) (COBL), mRNA
NM_015199	Homo sapiens ankyrin repeat domain 28 (ANKRD28), mRNA
NM_015200	Homo sapiens KIAA0648 protein (KIAA0648), mRNA
NM_015201	Homo sapiens block of proliferation 1 (BOP1), mRNA
NM_015203	Homo sapiens KIAA0460 protein (KIAA0460), mRNA
NM_015210	Homo sapiens KIAA0802 (KIAA0802), mRNA
NM_015213	Homo sapiens RAB6 interacting protein 1 (RAB6IP1), mRNA
NM_015219	Homo sapiens exocyst complex component 7 (EXOC7), mRNA
NM_015221	Homo sapiens dynamin binding protein (DNMBP), mRNA
NM_015229	Homo sapiens KIAA0664 protein (KIAA0664), mRNA
NM_015234	Homo sapiens G protein-coupled receptor 116 (GPR116), mRNA
NM_015238	Homo sapiens KIBRA protein (KIBRA), mRNA
NM_015243	Homo sapiens Cohen syndrome 1 (COH1), transcript variant 3, mRNA
NM_015245	Homo sapiens ankyrin repeat and sterile alpha motif domain containing 1 (Al
NM_015246	Homo sapiens mahogunin, ring finger 1 (MGRN1), mRNA
NM_015250	Homo sapiens bicaudal D homolog 2 (Drosophila) (BICD2), mRNA
NM_015252	Homo sapiens NPF/calponin-like protein (NACSIN), mRNA
NM_015255	Homo sapiens chromosome 6 open reading frame 133 (C6orf133), mRNA
NM_015259	Homo sapiens inducible T-cell co-stimulator ligand (ICOSL), mRNA
NM_015261	Homo sapiens KIAA0056 protein (KIAA0056), mRNA
NM_015263	Homo sapiens rabconnectin-3 (RC3), mRNA
NM_015265	Homo sapiens SATB family member 2 (SATB2), mRNA
NM_015266	Homo sapiens solute carrier family 9 (sodium/hydrogen exchanger), isoform

NM_015268	Homo sapiens DnaJ (Hsp40) homolog, subfamily C, member 13 (DNAJC13),
NM_015274	Homo sapiens mannosidase, alpha, class 2B, member 2 (MAN2B2), mRNA
NM_015275	Homo sapiens KIAA1033 protein (KIAA1033), mRNA
NM_015278	Homo sapiens SAM and SH3 domain containing 1 (SASH1), mRNA
NM_015281	Homo sapiens KIAA1043 protein (KIAA1043), mRNA
NM_015282	Homo sapiens cytoplasmic linker associated protein 1 (CLASP1), mRNA
NM_015284	Homo sapiens KIAA0467 protein (KIAA0467), mRNA
NM 015286	Homo sapiens desmuslin (DMN), transcript variant B, mRNA
NM 015289	Homo sapiens vacuolar protein sorting 39 (yeast) (VPS39), mRNA
NM_015293	Homo sapiens spectrin repeat containing, nuclear envelope 1 (SYNE1), trans
NM_015296	Homo sapiens dedicator of cytokinesis 9 (DOCK9), mRNA
NM_015305	Homo sapiens KIAA0759 (KIAA0759), mRNA
NM_015308	Homo sapiens formin binding protein 4 (FNBP4), mRNA
NM_015315	Homo sapiens likely ortholog of mouse la related protein (LARP), mRNA
NM 015316	Homo sapiens protein phosphatase 1, regulatory (inhibitor) subunit 13B (PPF
NM 015319	Homo sapiens tensin like C1 domain containing phosphatase (TENC1), trans
NM_015321	Homo sapiens mucoepidermoid carcinoma translocated 1 (MECT1), mRNA
NM_015323	Homo sapiens KIAA0776 (KIAA0776), mRNA
NM_015327	Homo sapiens Est1p-like protein B (EST1B), mRNA
NM_015328	Homo sapiens KIAA0828 protein (KIAA0828), mRNA
NM_015329	Homo sapiens KIAA0892 (KIAA0892), mRNA
NM_015330	Homo sapiens KIAA0376 protein (KIAA0376), mRNA
NM_015331	Homo sapiens nicastrin (NCSTN), mRNA
NM_015335	Homo sapiens thyroid hormone receptor associated protein 2 (THRAP2), mR
NM_015336	Homo sapiens zinc finger, DHHC domain containing 17 (ZDHHC17), mRNA
NM_015338	Homo sapiens additional sex combs like 1 (Drosophila) (ASXL1), mRNA
NM_015341	Homo sapiens barren homolog (Drosophila) (BRRN1), mRNA
NM_015342	Homo sapiens KIAA0073 protein (KIAA0073), mRNA
NM_015345	Homo sapiens dishevelled associated activator of morphogenesis 2 (DAAM2
NM_015346	Homo sapiens zinc finger, FYVE domain containing 26 (ZFYVE26), mRNA
NM_015347	Homo sapiens RIM binding protein 2 (KIAA0318), mRNA
NM_015350	Homo sapiens T-cell activation leucine repeat-rich protein (TA-LRRP), mRN/
NM_015352	Homo sapiens protein O-fucosyltransferase 1 (POFUT1), transcript variant 1,
NM_015358	Homo sapiens zinc finger, CW-type with colled-coll domain 3 (ZCWCC3), mF
NM_015359	Homo sapiens solute carrier family 39 (zinc transporter), member 14 (SLC39
NM_015360	Homo sapiens KIAA0052 (KIAA0052), mRNA
NM_015374	Homo sapiens unc-84 homolog B (C. elegans) (UNC84B), mRNA
NM_015375	Homo sapiens receptor interacting protein kinase 5 (RIPK5), transcript variar
NM_015378	Homo sapiens vacuolar protein sorting 13D (yeast) (VPS13D), mRNA
NM_015381	Homo sapiens TAFA protein 5 (TAFA5), mRNA
NM_015382	Homo sapiens HECT domain containing 1 (HECTD1), mRNA
NM_015386	Homo sapiens component of oligomeric golgi complex 4 (COG4), mRNA
NM_015391	Homo sapiens anaphase promoting complex subunit 13 (ANAPC13), mRNA
NM_015395	Homo sapiens DKFZP434B0335 protein (DKFZP434B0335), mRNA
NM_015397	Homo sapiens WD repeat domain 40A (WDR40A), mRNA
NM_015404	
NM_015411	
NM_015412	
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NM 015446	Homo sapiens ELYS transcription factor-like protein TMBS62 (ELYS), mRNA
NM 015447	Homo sapiens calmodulin regulated spectrin-associated protein 1 (CAMSAP
NM 015448	Homo sapiens deleted in a mouse model of primary ciliary dyskinesia (DPCI
NM 015457	Homo sapiens zinc finger, DHHC domain containing 5 (ZDHHC5), mRNA
NM_015459	Homo sapiens DKFZP564J0863 protein (DKFZP564J0863), mRNA
NM 015460	
NM_015461	Homo sapiens myosin VIIA and Rab interacting protein (MYRIP), mRNA
NM 015463	Homo sapiens zinc finger protein 521 (ZNF521), mRNA
_	Homo sapiens chromosome 2 open reading frame 32 (C2orf32), mRNA
NM_015464	Homo sapiens sclerostin domain containing 1 (SOSTDC1), mRNA
NM_015465	Homo sapiens gem (nuclear organelle) associated protein 5 (GEMIN5), mRN
NM_015466	Homo sapiens protein tyrosine phosphatase, non-receptor type 23 (PTPN23)
NM_015469	Homo sapiens nipsnap homolog 3A (C. elegans) (NIPSNAP3A), mRNA
NM_015470	Homo sapiens RAB11 family interacting protein 5 (class I) (RAB11FIP5), mR
NM_015475	Homo sapiens DKFZP564F0522 protein (DKFZP564F0522), mRNA
NM_015476	Homo sapiens chromosome 18 open reading frame 10 (C18orf10), mRNA
NM_015477	Homo sapiens SIN3 homolog A, transcriptional regulator (yeast) (SIN3A), mF
NM_015481	Homo sapiens zinc finger protein 385 (ZNF385), mRNA
NM_015483	Homo sapiens kelch repeat and BTB (POZ) domain containing 2 (KBTBD2),
NM_015488	Homo sapiens myofibrillogenesis regulator 1 (MR-1), mRNA
NM_015503	Homo sapiens SH2-B homolog (SH2B), mRNA
NM_015508	Homo sapiens TCDD-inducible poly(ADP-ribose) polymerase (TIPARP), mRI
NM_015518	Homo sapiens DKFZP434C131 protein (DKFZP434C131), mRNA
NM_015522	Homo sapiens dynein 2 light intermediate chain (D2LIC), transcript variant 2,
NM_015529	Homo sapiens monooxygenase, DBH-like 1 (MOXD1), mRNA
NM_015531	Homo sapiens DKFZP586P0123 protein (DKFZP586P0123), mRNA
NM_015532	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate-like 1A (
NM_015534	Homo sapiens zinc finger, ZZ domain containing 3 (ZZZ3), mRNA
NM_015541	Homo sapiens leucine-rich repeats and immunoglobulin-like domains 1 (LRIC
NM_015547	Homo sapiens thioesterase, adipose associated (THEA), transcript variant 1,
NM_015548	Homo sapiens dystonin (DST), transcript variant 1eA, mRNA
NM_015553	Homo sapiens phosphoinositide-binding protein PIP3-E (PIP3-E), mRNA
NM_015555	Homo sapiens zinc finger protein 451 (ZNF451), mRNA
NM_015557	Homo sapiens chromodomain helicase DNA binding protein 5 (CHD5), mRN
NM_015558	Homo sapiens synovial sarcoma translocation gene on chromosome 18-like
NM_015560	Homo sapiens optic atrophy 1 (autosomal dominant) (OPA1), nuclear gene e
NM_015565	Homo sapiens zinc finger protein 294 (ZNF294), mRNA
NM_015567	Homo sapiens SLIT and NTRK-like family, member 5 (SLITRK5), mRNA
NM_015568	Homo sapiens protein phosphatase 1, regulatory (inhibitor) subunit 16B (PPF
NM_015569	Homo sapiens dynamin 3 (DNM3), mRNA
NM_015575	Homo sapiens trinucleotide repeat containing 15 (TNRC15), mRNA
NM_015576 NM_015578	Homo sapiens CAZ-associated structural protein (CAST), mRNA
_	Homo sapiens chromosome 19 open reading frame 13 (C19orf13), mRNA
NM_015585 NM_015589	Homo sapiens chromosome 20 open reading frame 26 (C20orf26), mRNA
	Homo sapiens sterile alpha motif domain containing 4 (SAMD4), mRNA
NM_015597 NM_015600	Homo sapiens G-protein signalling modulator 1 (AGS3-like, C. elegans) (GPt
NM_015602	Homo sapiens chromosome 20 open reading frame 22 (C20orf22), mRNA Homo sapiens lamina-associated polypeptide 1B (LAP1B), mRNA
NM 015604	
NM 015605	Homo sapiens WD repeat domain 21 (WDR21), transcript variant 1, mRNA Homo sapiens DKFZP566K0524 protein (DKFZP566K0524), mRNA
NM_015608	Homo sapiens chromosome 10 open reading frame 137 (C10orf137), mRNA
NM 015609	Homo sapiens culomosome 10 open reading frame 137 (C100H137), mRNA Homo sapiens putative MAPK activating protein PM20,PM21 (DKFZp566C04
NM_015617	Homo sapiens pygopus 1 (PYGO1), mRNA
NM 015627	Homo sapiens LDL receptor adaptor protein (ARH), mRNA
NM 015631	Homo sapiens chromosome 10 open reading frame 61 (C10orf61), mRNA
NM 015633	Homo sapiens chlomosome 10 open reading frame 61 (C100n61), mRNA Homo sapiens FGFR1 oncogene partner 2 (FGFR10P2), mRNA
NM_015634	Homo sapiens KIAA1279 (KIAA1279), mRNA
NM_015635	Homo sapiens NAA1279 (NAA1279), nikina Homo sapiens DKFZP434C212 protein (DKFZP434C212), mRNA
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NM_015639	Homo sapiens GTPase activating RANGAP domain-like 2 pseudogene (GAF
NM_015649	Homo sapiens interferon regulatory factor 2 binding protein 1 (IRF2BP1), mR
NM_015655	Homo sapiens zinc finger protein 337 (ZNF337), mRNA
NM_015659	Homo sapiens DKFZP564M182 protein (DKFZP564M182), mRNA
NM_015660	Homo sapiens immunity associated protein 2 (HIMAP2), mRNA
NM_015662	Homo sapiens selective LIM binding factor, rat homolog (SLB), mRNA
NM_015666	Homo sapiens GTP binding protein 5 (putative) (GTPBP5), mRNA
NM_015667	Homo sapiens chromosome 9 open reading frame 36 (C9orf36), mRNA
NM_015668	Homo sapiens DKFZP434I092 protein (DKFZP434I092), mRNA
NM_015687	Homo sapiens filamin A interacting protein 1 (FILIP1), mRNA
NM_015690	Homo sapiens serine/threonine kinase 36 (fused homolog, Drosophila) (STK
NM_015691	Homo sapiens KIAA1280 protein (KIAA1280), mRNA
NM_015692	Homo sapiens C3 and PZP-like, alpha-2-macroglobulin domain containing 8
NM_015693	Homo sapiens PDZ domain containing 6 (PDZK6), mRNA
NM_015694	Homo sapiens KIAA1285 protein (KIAA1285), mRNA
NM_015713	Homo sapiens ribonucleotide reductase M2 B (TP53 inducible) (RRM2B), mf
NM_015723	Homo sapiens intracellular membrane-associated calcium-independent phos
NM_015905	Homo sapiens transcriptional intermediary factor 1 (TIF1), transcript variant 1 Homo sapiens cofactor required for Sp1 transcriptional activation, subunit 3,
NM_015979	Homo sapiens FK506 binding protein 7 (FKBP7), transcript variant 1, mRNA
NM_016105	Homo sapiens insulin induced gene 2 (INSIG2), mRNA
NM_016133	Homo sapiens nucleoporin 98kDa (NUP98), transcript variant 1, mRNA
NM_016320	Homo sapiens Ras-associated protein Rap1 (RBJ), mRNA
NM_016544	Homo sapiens amiloride-sensitive cation channel 5, intestinal (ACCN5), mRN
NM_017419 NM_017437	Homo sapiens cleavage and polyadenylation specific factor 2, 100kDa (CPS)
NM 017440	Homo sapiens nuclear protein double minute 1 (MDM1), mRNA
NM 017510	Homo sapiens gp25L2 protein (HSGP25L2G), mRNA
NM_017516	Homo sapiens RAB39, member RAS oncogene family (RAB39), mRNA
NM_017519	Homo sapiens AT rich interactive domain 1B (SWI1-like) (ARID1B), transcrip
NM 017520	Homo sapiens M-phase phosphoprotein, mpp8 (HSMPP8), mRNA
NM 017525	Homo sapiens myotonic dystrophy protein kinase like protein (HSMDPKIN), r
NM 017527	Homo sapiens cDNA for differentially expressed CO16 gene (LY6K), mRNA
NM_017539	Homo sapiens dynein, axonemal, heavy polypeptide 3 (DNAH3), mRNA
NM_017549	Homo sapiens upregulated in colorectal cancer gene 1 (UCC1), mRNA
NM_017550	Homo sapiens KIAA1193 (KIAA1193), mRNA
NM_017553	Homo sapiens homolog of yeast INO80 (INO80), transcript variant 1, mRNA
NM_017554	Homo sapiens KIAA1268 protein (KIAA1268), mRNA
NM_017556	Homo sapiens filamin-binding LIM protein-1 (FBLP-1), mRNA
NM_017563	Homo sapiens interleukin 17 receptor D (IL17RD), mRNA
NM_017565	Homo sapiens family with sequence similarity 20, member A (FAM20A), mRI
NM_017570	Homo sapiens 5-oxoprolinase (ATP-hydrolysing) (OPLAH), mRNA
NM_017573	Homo sapiens proprotein convertase subtilisin/kexin type 4 (PCSK4), mRNA
NM_017576	Homo sapiens kinesin family member 27 (KIF27), mRNA
NM_017580	Homo sapiens zinc finger, RAN-binding domain containing 1 (ZRANB1), mRI
NM_017602	
NM_017619	Homo sapiens U11/U12 snRNP 65K protein (FLJ25070), mRNA
NM_017628	Homo sapiens hypothetical protein FLJ20032 (FLJ20032), mRNA
NM_017641	Homo sapiens kinesin family member 21A (KIF21A), mRNA Homo sapiens suppressor of hairy wing homolog 3 (Drosophila) (SUHW3), n
NM_017666	
NM_017672 NM_017725	
NM_017725 NM_017747	
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NM 017758	
NM_017771	
NM 017804	
NM_017861	'

NM_017871	Homo sapiens hypothetical protein FLJ20542 (FLJ20542), mRNA
NM_017879	
NM_017969	
NM_017978	
NM_018003	Homo sapiens uveal autoantigen with coiled-coil domains and ankyrin repeal
NM_018069	Homo sapiens hypothetical protein FLJ10352 (FLJ10352), transcript variant;
NM_018117	Homo sapiens WD repeat domain 11 (WDR11), mRNA
NM_018151	Homo sapiens telomere-associated protein RIF1 homolog (Rif1), mRNA
NM_018177	Homo sapiens Nedd4 binding protein 2 (N4BP2), mRNA
NM_018193	Homo sapiens hypothetical protein FLJ10719 (FLJ10719), mRNA
NM_018218	Homo sapiens ubiquitin specific protease 40 (USP40), mRNA
NM_018237	Homo sapiens cell division cycle and apoptosis regulator 1 (CCAR1), mRNA
NM_018284	Homo sapiens guanylate binding protein 3 (GBP3), mRNA
NM_018325	Homo sapiens chromosome 9 open reading frame 72 (C9orf72), transcript ve
NM_018334	Homo sapiens leucine rich repeat neuronal 3 (LRRN3), mRNA
NM_018369	Homo sapiens DEP domain containing 1B (DEPDC1B), mRNA
NM_018392	Homo sapiens hypothetical protein FLJ11331 (FLJ11331), mRNA
NM_018397	Homo sapiens choline dehydrogenase (CHDH), mRNA
NM_018405	Homo sapiens hypothetical protein, clone 2746033 (HSA272196), mRNA
NM_018414	Homo sapiens sialyltransferase 7 ((alpha-N-acetylneuraminyl-2,3-beta-galaci
NM_018420	Homo sapiens solute carrier family 22 (organic cation transporter), member 1
NM_018424	Homo sapiens erythrocyte membrane protein band 4.1 like 4B (EPB41L4B),
NM_018429	Homo sapiens B double prime 1, subunit of RNA polymerase III transcription
NM_018462	Homo sapiens chromosome 3 open reading frame 10 (C3orf10), mRNA
NM 018646	Homo sapiens transient receptor potential cation channel, subfamily V, mem
NM_018689	Homo sapiens KIAA1199 (KIAA1199), mRNA
NM_018703	Homo saplens retinoblastoma binding protein 6 (RBBP6), transcript variant 2
NM 018704	Homo sapiens hypothetical protein DKFZp547A023 (DKFZp547A023), mRN,
NM_018708	Homo sapiens fem-1 homolog a (C.elegans) (FEM1A), mRNA
NM_018710	Homo sapiens hypothetical protein DKFZp762O076 (DKFZp762O076), mRN
NM_018711	Homo sapiens hypothetical protein DKFZp761H039 (DKFZp761H039), mRN.
NM 018712	Homo sapiens hypothetical protein DKFZp547C176 (DKFZp547C176), mRN.
NM_018714	Homo sapiens component of oligomeric golgi complex 1 (COG1), mRNA
NM_018715	Homo sapiens RCC1-like (TD-60), mRNA
NM 018717	Homo sapiens mastermind-like 3 (Drosophila) (MAML3), mRNA
NM 018837	Homo sapiens sulfatase 2 (SULF2), transcript variant 1, mRNA
NM_018847	Homo sapiens kelch-like 9 (Drosophila) (KLHL9), mRNA
NM 018981	Homo sapiens DnaJ (Hsp40) homolog, subfamily C, member 10 (DNAJC10)
NM_018987	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and typ
NM 018998	Homo sapiens F-box and WD-40 domain protein 5 (FBXW5), transcript varia
NM 018999	Homo sapiens KIAA1128 protein (KIAA1128), mRNA
NM_019001	Homo sapiens 5'-3' exoribonuclease 1 (XRN1), mRNA
NM_019007	Homo saplens hypothetical protein FLJ20811 (FLJ20811), mRNA
NM_019010	Homo sapiens keratin 20 (KRT20), mRNA
NM 019015	Homo sapiens chondroitin sulfate glucuronyltransferase (CSGlcA-T), mRNA
NM 019022	Homo sapiens FLJ20793 protein (FLJ20793), mRNA
NM 019026	Homo sapiens putative membrane protein (LOC54499), mRNA
NM_019029	Homo sapiens carboxypeptidase, vitellogenic-like (CPVL), transcript variant 2
NM 019030	Homo sapiens DEAH (Asp-Glu-Ala-His) box polypeptide 29 (DHX29), mRNA
NM_019032	Homo sapiens thrombospondin repeat containing 1 (TSRC1), mRNA
NM 019036	Homo sapiens 3-hydroxymethyl-3-methylglutaryl-Coenzyme A lyase-like 1 (H
NM_019051	Homo sapiens witochondrial ribosomal protein L50 (MRPL50), nuclear gene
NM 019053	Homo sapiens SEC15-like 1 (S. cerevisiae) (SEC15L1), mRNA
NM 019055	Homo sapiens roundabout homolog 4, magic roundabout (Drosophila) (ROB
NM_019065	Homo sapiens Fe hand calcium binding protein 2 (EFCBP2), mRNA
NM_019072	Homo sapiens small glutamine-rich tetratricopeptide repeat (TPR)-containing
NM_019075	Homo sapiens UDP glycosyltransferase 1 family, polypeptide A10 (UGT1A1)
0 10070	Training, polypeptide A10 (UGTTATI

NM_019077	Homo sapiens UDP glycosyltransferase 1 family, polypeptide A7 (UGT1A7),
NM_019078	Homo sapiens UDP glycosyltransferase 1 family, polypeptide A5 (UGT1A5),
NM 019085	Homo sapiens F-box and leucine-rich repeat protein 19 (FBXL19), mRNA
NM 019092	Homo sapiens hypothetical protein KIAA1164 (KIAA1164), mRNA
NM_019104	Homo sapiens protein F25965 (F25965), mRNA
NM_019107	Homo sapiens chromosome 19 open reading frame 10 (C19orf10), mRNA
NM 019590	Homo sapiens KIAA1217 (KIAA1217), mRNA
NM 019593	Homo sapiens hypothetical protein KIAA1434 (KIAA1434), mRNA
NM 019594	Homo sapiens leucine rich repeat containing 8 (LRRC8), mRNA
NM 019850	Homo sapiens neuronal guanine nucleotide exchange factor (NGEF), mRNA
NM_020063	Homo sapiens BarH-like 2 (Drosophila) (BARHL2), mRNA
NM 020116	Homo sapiens follistatin-like 5 (FSTL5), mRNA
NM_020124	Homo sapiens interferon, kappa (IFNK), mRNA
NM 020170	Homo sapiens nicalin (LOC56926), mRNA
NM 020172	Homo sapiens SPPL2b (SPPL2B), mRNA
NM 020175	Homo saplens hypothetical protein from EUROIMAGE 1967720 (LOC56931)
NM 020192	Homo sapiens chromosome 7 open reading frame 36 (C7orf36), mRNA
NM_020204	Homo sapiens LIM homeobox 9 (LHX9), mRNA
NM 020207	Homo sapiens chromosome 9 open reading frame 102 (C9orf102), mRNA
NM 020209	Homo sapiens src homology 2 domain-containing transforming protein D (SH
NM 020210	Homo sapiens sema domain, immunoglobulin domain (Ig), transmembrane c
NM_020211	Homo sapiens RGM domain family, member A (RGMA), mRNA
NM 020212	Homo sapiens hypothetical protein from EUROIMAGE 384293 (LOC56964),
NM 020214	Homo sapiens hypothetical protein from EUROIMAGE 1977056 (LOC56965)
NM 020219	Homo sapiens carcinoembryonic antigen-like 1 (CEAL1), mRNA
NM 020223	Homo sapiens family with sequence similarity 20, member C (FAM20C), mRI
NM_020311	Homo sapiens chemokine orphan receptor 1 (CMKOR1), mRNA
NM 020312	Homo sapiens hypothetical protein DKFZp434K046 (DKFZP434K046), mRN.
NM 020318	Homo sapiens pappalysin 2 (PAPPA2), transcript variant 1, mRNA
NM 020319	Homo sapiens ankyrin repeat and MYND domain containing 2 (ANKMY2), m
NM_020320	Homo saplens arginyl-tRNA synthetase-like (RARSL), mRNA
NM 020336	Homo sapiens KIAA1219 protein (KIAA1219), mRNA
NM_020338	Homo sapiens retinoic acid induced 17 (RAI17), mRNA
NM 020340	Homo sapiens KIAA1244 (KIAA1244), mRNA
NM_020341	Homo sapiens p21(CDKN1A)-activated kinase 7 (PAK7), transcript variant 1,
NM 020376	Homo sapiens transport-secretion protein 2.2 (TTS-2.2), mRNA
NM_020378	Homo sapiens K562 cell-derived leucine-zipper-like protein 1 (KLP1), mRNA
NM_020383	Homo sapiens X-prolyl aminopeptidase (aminopeptidase P) 1, soluble (XPNF
NM 020409	Homo sapiens mitochondrial ribosomal protein L47 (MRPL47), nuclear gene
NM 020416	Homo sapiens protein phosphatase 2 (formerly 2A), regulatory subunit B (PF
NM 020417	Homo sapiens T-box 20 (TBX20), mRNA
NM_020420	Homo sapiens deleted in azoospermia 4 (DAZ4), mRNA
NM_020429	Homo sapiens SMAD specific E3 ubiquitin protein ligase 1 (SMURF1), transc
NM_020432	Homo sapiens putative homeodomain transcription factor 2 (PHTF2), mRNA
NM_020438	Homo sapiens dolichyl pyrophosphate phosphatase 1 (DOLPP1), mRNA
NM_020440	Homo sapiens prostaglandin F2 receptor negative regulator (PTGFRN), mRN
NM 020447	Homo sapiens chromosome 15 open reading frame 17 (C15orf17), mRNA
NM 020451	Homo sapiens selenoprotein N, 1 (SEPN1), transcript variant 1, mRNA
NM 020452	Homo sapiens ATPase, Class I, type 8B, member 2 (ATP8B2), mRNA
NM 020453	Homo sapiens ATPase, Class V, type 10D (ATP10D), mRNA
NM 020455	Homo sapiens G protein-coupled receptor 126 (GPR126), mRNA
NM 020456	Homo sapiens chromosome 13 open reading frame 1 (C13orf1), mRNA
NM 020457	Homo sapiens THAP domain containing 11 (THAP11), mRNA
NM 020462	Homo sapiens KIAA1181 protein (KIAA1181), mRNA
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NM 020463	Homo sapiens KIAA1387 protein (KIAA1387), mRNA
NM_020463 NM_020468	Homo sapiens KIAA1387 protein (KIAA1387), mRNA Homo sapiens sorting nexin 14 (SNX14), transcript variant 2, mRNA
_	Homo sapiens KIAA1387 protein (KIAA1387), mRNA Homo sapiens sorting nexin 14 (SNX14), transcript variant 2, mRNA Homo sapiens chromosome 20 open reading frame 3 (C20orf3), mRNA

NM_020532	
NM_020536	Homo sapiens CSRP2 binding protein (CSRP2BP), transcript variant 1, mRN
NM_020546	Homo sapiens adenylate cyclase 2 (brain) (ADCY2), mRNA
NM_020631	Homo sapiens putative NFkB activating protein (KIAA0720), transcript varian
NM_020647	Homo sapiens junctophilin 1 (JPH1), mRNA
NM_020693	Homo sapiens Down syndrome cell adhesion molecule like 1 (DSCAMI 1) m
NM_020695	Homo sapiens transcription elongation factor B polypeptide 3 binding protein
NM_020696	Homo sapiens KIAA1143 protein (KIAA1143), mRNA
NM_020697	Homo sapiens potassium voltage-gated channel, delayed-rectifier, subfamily
NM_020698	Homo sapiens KIAA1145 protein (KIAA1145), mRNA
NM_020699	Homo sapiens transcription repressor p66 beta component of the MeCP1 col
NM_020701	Homo sapiens KiAA1160 protein (KIAA1160), mRNA
NM_020702	Homo sapiens KIAA1161 (KIAA1161), mRNA
NM_020706	Homo sapiens splicing factor, arginine/serine-rich 15 (SFRS15), mRNA
NM_020710	Homo sapiens KIAA1185 protein (KIAA1185), mRNA
NM_020713	Homo sapiens KIAA1196 protein (KIAA1196), mRNA
NM_020714	Homo sapiens zinc finger protein 490 (ZNF490), mRNA
NM_020718	Homo sapiens ubiquitin specific protease 31 (USP31), mRNA
NM_020728	Homo sapiens KIAA1228 protein (KIAA1228), mRNA
NM_020732	Homo sapiens AT rich interactive domain 1B (SWI1-like) (ARID1B), transcrip
NM_020739	Homo sapiens cell cycle progression 1 (CCPG1), mRNA
NM_020740	Homo sapiens ankyrin repeat and FYVE domain containing 1 (ANKFY1), trar
NM_020742	Homo sapiens neuroligin 4, X-linked (NLGN4X), transcript variant 1, mRNA
NM_020744	Homo sapiens metastasis associated family, member 3 (MTA3), mRNA
NM_020745	Homo sapiens alanyl-tRNA synthetase like (AARSL), mRNA
NM_020746	Homo sapiens KIAA1271 protein (KIAA1271), mRNA
NM_020748	Homo sapiens KIAA1287 protein (KIAA1287), mRNA
NM_020750	Homo sapiens exportin 5 (XPO5), mRNA
NM_020751 NM_020752	Homo sapiens component of oligomeric golgi complex 6 (COG6), mRNA
NM 020753	Homo sapiens G protein-coupled receptor 158 (GPR158), mRNA
NM_020755	Homo sapiens CASK Interacting protein 2 (CASKIN2), mRNA
NM 020761	Homo sapiens tumor differentially expressed 2 (TDE2), mRNA Homo sapiens raptor (raptor), mRNA
NM_020762	Homo sapiens Tapior (Tapior), mRNA Homo sapiens SLIT-ROBO Rho GTPase activating protein 1 (SRGAP1), mR
NM_020765	Homo sapiens retinoblastoma-associated factor 600 (RBAF600), mRNA
NM 020769	Homo sapiens KIAA1318 protein (KIAA1318), mRNA
NM 020771	Homo sapiens HECT domain and ankyrin repeat containing, E3 ubiquitin pro
NM_020772	Homo sapiens 82-kD FMRP Interacting Protein (182-FIP), mRNA
NM_020773	Homo sapiens TBC1 domain family, member 14 (TBC1D14), mRNA
NM 020774	Homo sapiens mindbomb homolog 1 (Drosophila) (MIB1), mRNA
NM_020775	Homo sapiens maba1 (KIAA1324), mRNA
NM_020778	Homo sapiens likely ortholog of mouse myocytic induction/differentiation orig
NM_020779	Homo sapiens WD repeat domain 35 (WDR35), mRNA
NM_020781	Homo sapiens zinc finger protein 398 (ZNF398), transcript variant 2, mRNA
NM_020783	Homo sapiens synaptotagmin IV (SYT4), mRNA
NM_020786	Homo sapiens pyruvate dehydrogenase phosphatase isoenzyme 2 (PDP2), I
NM_020787	Homo sapiens zinc finger protein 624 (ZNF624), mRNA
NM_020789	Homo sapiens immunoglobulin superfamily, member 9 (IGSF9), mRNA
NM_020791	Homo sapiens serine/threonine protein kinase TAO1 homolog (KIAA1361), n
NM_020792	Homo sapiens KIAA1363 protein (KIAA1363), mRNA
NM_020795	Homo sapiens neuroligin 2 (NLGN2), mRNA
NM_020799	Homo sapiens associated molecule with the SH3 domain of STAM (AMSH) Ii
NM_020800	Homo sapiens KIAA1374 protein (KIAA1374), mRNA
NM_020801	Homo sapiens arrestin domain containing 3 (ARRDC3), mRNA
NM_020803	Homo sapiens kelch-like 8 (Drosophila) (KLHL8), mRNA
NM_020804	Homo sapiens protein kinase C and casein kinase substrate in neurons 1 (Pr
NM_020808	Homo sapiens signal-induced proliferation-associated 1 like 2 (SIPA1L2), mF

NM_020809	Homo sapiens Rho GTPase activating protein 20 (ARHGAP20), mRNA
NM_020810	Homo sapiens KIAA1393 (KIAA1393), mRNA
NM_020812	Homo sapiens dedicator of cytokinesis 6 (DOCK6), mRNA
NM_020813	Homo sapiens zinc finger protein 471 (ZNF471), mRNA
NM_020816	Homo sapiens kinesin family member 17 (KIF17), mRNA
NM_020817	Homo sapiens KIAA1407 protein (KIAA1407), mRNA
NM_020818	Homo sapiens KIAA1409 (KIAA1409), mRNA
NM_020820	Homo sapiens phosphatidylinositol 3,4,5-trisphosphate-dependent RAC exch
NM_020824	Homo sapiens Rho GTPase activating protein 21 (ARHGAP21), mRNA
NM_020825	Homo sapiens Crm, cramped-like (Drosophila) (CRAMP1L), mRNA
NM_020826	Homo sapiens synaptotagmin XIII (SYT13), mRNA
NM_020828	Homo sapiens zinc finger protein 28 homolog (mouse) (ZFP28), mRNA
NM_020832	Homo sapiens KIAA1441 protein (KIAA1441), mRNA
NM_020834	Homo sapiens KIAA1443 (KIAA1443), mRNA
NM_020839	Homo sapiens WD repeat endosomal protein (KIAA1449), mRNA
NM_020844	Homo sapiens KIAA1456 protein (KIAA1456), mRNA
NM_020845	Homo sapiens phosphatidylinositol transfer protein, membrane-associated 2
NM_020847	Homo sapiens trinucleotide repeat containing 6 (TNRC6), mRNA
NM_020850	Homo sapiens Ran-binding protein 10 (RANBP10), mRNA
NM_020851	Homo sapiens KIAA1465 protein (KIAA1465), mRNA
NM_020854	Homo sapiens KIAA1468 (KIAA1468), mRNA
NM_020856	Homo sapiens zinc finger protein 537 (ZNF537), mRNA
NM_020858	Homo sapiens sema domain, transmembrane domain (TM), and cytoplasmic
NM_020859	Homo sapiens Shroom-related protein (ShrmL), mRNA
NM_020860	Homo sapiens stromal interaction molecule 2 (STIM2), mRNA
NM_020861	Homo sapiens zinc finger and BTB domain containing 2 (ZBTB2), mRNA
NM_020863	Homo sapiens zinc finger protein 406 (ZNF406), mRNA
NM_020867	Homo sapiens ubiquitin associated protein 2 (UBAP2), transcript variant 2, m
NM_020868	Homo sapiens dipeptidylpeptidase 10 (DPP10), mRNA
NM_020870	Homo sapiens SH3 multiple domains 2 (SH3MD2), mRNA
NM_020871	Homo sapiens leucine-rich repeats and calponin homology (CH) domain con
NM_020873	Homo sapiens leucine rich repeat neuronal 1 (LRRN1), mRNA
NM_020875	Homo sapiens Fraser syndrome 1 (FRAS1), transcript variant 3, mRNA
NM_020880	Homo sapiens zinc finger protein 530 (ZNF530), mRNA
NM_020882	Homo sapiens KIAA1510 protein (KIAA1510), mRNA
NM_020889	Homo sapiens PHD finger protein 12 (PHF12), mRNA
NM_020890	Homo sapiens KIAA1524 protein (KIAA1524), mRNA
NM_020892	Homo sapiens deltex homolog 2 (Drosophila) (DTX2), mRNA
NM_020895	Homo sapiens KIAA1533 (KIAA1533), mRNA
NM_020897	Homo sapiens hyperpolarization activated cyclic nucleotide-gated potassium
NM_020899	Homo sapiens zinc finger and BTB domain containing 4 (ZBTB4), mRNA
NM_020914	Homo sapiens chromosome 17 open reading frame 27 (C17orf27), mRNA
NM_020918	Homo sapiens glycerol-3-phosphate acyltransferase, mitochondrial (GPAM),
NM_020922	Homo sapiens protein kinase, lysine deficient 3 (PRKWNK3), transcript varia
NM_020925	Homo sapiens KIAA1573 protein (KIAA1573), mRNA
NM_020926	Homo sapiens BCL6 co-repressor (BCOR), transcript variant 2, mRNA
NM_020927	Homo sapiens KIAA1576 protein (KIAA1576), mRNA
NM_020932	Homo sapiens melanoma antigen, family E, 1 (MAGEE1), mRNA
NM_020935	Homo sapiens ubiquitin specific protease 37 (USP37), mRNA
NM_020936	Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 55 (DDX55), mRNA
NM_020939	Homo sapiens copine V (CPNE5), mRNA
NM_020944	Homo sapiens glucosidase, beta (bile acid) 2 (GBA2), mRNA
NM_020947	Homo sapiens KIAA1609 protein (KIAA1609), mRNA
NM_020948	Homo sapiens mesoderm induction early response 1 (MI-ER1), mRNA
NM_020951	Homo sapiens zinc finger protein 529 (ZNF529), mRNA
NM_020952	Homo sapiens transient receptor potential cation channel, subfamily M, mem
NM_020954	Homo sapiens KIAA1618 (KIAA1618), mRNA

NM_020961	Homo sapiens KIAA1627 protein (KIAA1627), mRNA
NM_020962	Homo sapiens likely ortholog of mouse neighbor of Punc E11 (NOPE), mRN/
NM_020964	Homo sapiens KIAA1632 protein (KIAA1632), mRNA
NM_020965	Homo sapiens membrane-associated guanylate kinase-related (MAGI-3) (M/
NM_020970	Homo sapiens KIAA1641 (KIAA1641), mRNA
NM_020971	Homo sapiens spectrin, beta, non-erythrocytic 4 (SPTBN4), mRNA
NM_021006	Homo sapiens chemokine (C-C motif) ligand 3-like 1 (CCL3L1), mRNA
NM_021009	Homo sapiens ubiquitin C (UBC), mRNA
NM_021035	Homo sapiens KIAA1404 protein (KIAA1404), mRNA
NM_021044	Homo sapiens desert hedgehog homolog (Drosophila) (DHH), mRNA
NM_021045	Homo sapiens zinc finger protein 248 (ZNF248), mRNA
NM_021059	Homo sapiens histone 2, H3c (HIST2H3C), mRNA
NM_021061	Homo sapiens zinc finger protein 647 (ZNF647), mRNA
NM_021072	Homo sapiens hyperpolarization activated cyclic nucleotide-gated potassium
NM_021088	Homo sapiens zinc finger protein 2 (A1-5) (ZNF2), mRNA
NM_021089	Homo sapiens zinc finger protein 8 (clone HF.18) (ZNF8), mRNA
NM_021116	Homo sapiens adenylate cyclase 1 (brain) (ADCY1), mRNA
NM_021117	Homo sapiens cryptochrome 2 (photolyase-like) (CRY2), mRNA
NM_021143	Homo sapiens zinc finger protein 20 (KOX 13) (ZNF20), mRNA
NM_021148	Homo sapiens zinc finger protein 273 (ZNF273), mRNA
NM_021149	Homo sapiens coactosin-like 1 (Dictyostelium) (COTL1), mRNA Homo sapiens splicing factor 4 (SF4), transcript variant b, mRNA
NM_021164	Homo sapiens spiicing factor 4 (314), transcript variant 5, mixtor Homo sapiens hypothetical protein from clone 24828 (KIAA1747), mRNA
NM_021165	Homo sapiens transcription factor CP2-like 4 (TFCP2L4), transcript variant 1
NM_021180	Homo sapiens tumor protein p53 inducible nuclear protein 2 (TP53INP2), mF
NM_021202 NM 021217	Homo sapiens zinc finger protein 77 (pT1) (ZNF77), mRNA
NM_021217	Homo sapiens chromosome 9 open reading frame 80 (C9orf80), mRNA
NM 021222	Homo sapiens TcD37 homolog (HTCD37), mRNA
NM 021224	Homo sapiens zinc finger protein 462 (ZNF462), mRNA
NM 021227	Homo sapiens DC2 protein (DC2), mRNA
NM 021228	Homo sapiens serine arginine-rich pre-mRNA splicing factor SR-A1 (SR-A1),
NM 021237	Homo sapiens selenoprotein K (SELK), mRNA
NM 021250	Homo sapiens leukocyte lg-like receptor 9 (LIR9), transcript variant 1, mRNA
NM 021260	Homo sapiens zinc finger, FYVE domain containing 1 (ZFYVE1), transcript v
NM 021636	Homo sapiens leucine-rich repeat-containing G protein-coupled receptor 6 (L
NM_021649	Homo sapiens toll-like receptor adaptor molecule 2 (TICAM2), mRNA
NM_021652	Homo sapiens SMA4 (SMA4), mRNA
NM_021915	Homo sapiens zlnc finger protein 69 (Cos5) (ZNF69), mRNA
NM_021916	Homo sapiens zinc finger protein 70 (Cos17) (ZNF70), mRNA
NM_021936	Homo sapiens pappalysin 2 (PAPPA2), transcript variant 2, mRNA
NM_021937	Homo sapiens elongation factor for selenoprotein translation (SELB), mRNA
NM_022045	Homo sapiens Mdm2, transformed 3T3 cell double minute 2, p53 binding pro
NM_022075	Homo sapiens LAG1 longevity assurance homolog 2 (S. cerevisiae) (LASS2)
NM_022080	
NM_022085	
NM_022092	
NM_022106	Homo sapiens chromosome 20 open reading frame 177 (C20orf177), mRNA
NM_022115	
NM_022138	· · · · · · · · · · · · · · · · · · ·
NM_022160	
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NM_022475	
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NM_022572	
NM_022733	Homo sapiens hypothetical protein AL133206 (LOC64744) mRNA
NM_022742	' Homo sapiens hypothetical protein DKFZp434G156 (DKFZP434G156) mRN
NM_022745	 Homo sapiens ATP synthase mitochondrial F1 complex assembly factor 1 (A)
NM_022757	Homo sapiens hypothetical protein FLJ12892 (FLJ12892), mRNA
NM_022824	Homo sapiens F-box and leucine-rich repeat protein 17 (FBXL17), mRNA
NM_022833	Homo sapiens chromosome 9 open reading frame 88 (C9orf88), mRNA
NM_022835	Homo sapiens likely ortholog of mouse common-site lymphoma/leukemia GE
NM_022913	Homo sapiens vasculin (DKFZp761C169), mRNA
NM_023002	Homo sapiens hyaluronan and proteoglycan link protein 4 (HAPLN4), mRNA
NM 023006	Homo sapiens kallikrein 15 (KLK15), transcript variant 1, mRNA
NM_023939	Homo sapiens hypothetical protein MGC2752 (MGC2752), mRNA
NM 023943	Homo sapiens hypothetical protein MGC3040 (MGC3040), mRNA
NM_024007	Homo sapiens early B-cell factor (EBF), mRNA
NM_024019	, , , , , , , , , , , , , , , , , , , ,
NM 024100	Homo sapiens WD repeat domain 18 (WDR18), mRNA
NM 024316	Homo sapiens leukocyte receptor cluster (LRC) member 1 (LENG1), mRNA
NM 024335	Homo sapiens iroquois homeobox protein 6 (IRX6), mRNA
NM_024336	Homo sapiens iroquois homeobox protein 3 (IRX3), mRNA
NM 024342	Homo sapiens glucocorticoid receptor DNA binding factor 1 (GRLF1), transci
NM_024344	Homo sapiens calpain 3, (p94) (CAPN3), transcript variant 2, mRNA
NM 024420	Homo sapiens phospholipase A2, group IVA (cytosolic, calcium-dependent)
NM 024493	Homo saplens zinc finger protein 306 (ZNF306), mRNA
NM 024496	Homo sapiens chromosome 14 open reading frame 4 (C14orf4), mRNA
NM_024511	Homo sapiens chromosome 4 open reading frame 15 (C4orf15), mRNA
NM_024517	Homo sapiens PHD finger protein 2 (PHF2), transcript variant 2, mRNA
NM 024553	Homo sapiens hypothetical protein FLJ20097 (FLJ20097), mRNA
NM_024621	Homo sapiens hypothetical protein FLJ12604 (FLJ12604), mRNA
NM_024625	Homo sapiens rippotnetical protein FL3 12004 (FL3 12004), mRNA
NM_024684	Homo sapiens zinc finger CCCH type, antiviral 1 (ZC3HAV1), transcript varia Homo sapiens PTD015 protein (PTD015), mRNA
NM 024742	Homo sapiens armadillo repeat containing 5 (ARMC5), mRNA
NM 024769	Homo sapiens adipocyte-specific adhesion molecule (ASAM), mRNA
NM_024870	Homo sapiens DEP domain containing 2 (DEDDC2), transposite variety and DEP
NM 024878	Homo sapiens DEP domain containing 2 (DEPDC2), transcript variant 1, mR Homo sapiens CGI-72 protein (CGI-72), transcript variant 4, mRNA
NM_024933	Homo sapiens hypothetical protein FLJ12056 (FLJ12056), mRNA
NM 024953	Homo saniens hypothetical protein FL 142000 (FL 142000), mRNA
NM_025169	Homo sapiens hypothetical protein FLJ13089 (FLJ13089), mRNA
NM_025196	Homo sapiens zinc finger protein 167 (ZNF167), transcript variant 2, mRNA
NM 025202	Homo sapiens GrpE-like 1, mitochondrial (E. coli) (GRPEL1), mRNA Homo sapiens EF hand domain containing 1 (EFHD1), mRNA
NM_025219	Home sapiens Dra I (Hendo) homeles subfemily Community (DNA 195)
NM_025224	Homo sapiens DnaJ (Hsp40) homolog, subfamily C, member 5 (DNAJC5), m
NM_025248	Homo sapiens BTB (POZ) domain containing 4 (BTBD4), mRNA Homo sapiens SNAP25-interacting protein (SNIP), mRNA
NM_025252	Home sapiens Bas association (BalCDS/AC s) and all state to be a second
NM_025256	Homo sapiens Ras association (RalGDS/AF-6) and pleckstrin homology dom
NM_030625	Homo sapiens HLA-B associated transcript 8 (BAT8), transcript variant NG36 Homo sapiens CXXC finger 6 (CXXC6), mRNA
NM_030627	Home sapiens extendermic nelvadorylatica element bindi
NM_030628	Homo sapiens cytoplasmic polyadenylation element binding protein 4 (CPEB
NM_030629	Homo sapiens KIAA1698 protein (KIAA1698), mRNA
NM_030630	Homo sapiens c-Maf-inducing protein (CMIP), transcript variant Tc-mip, mRN
NM_030633	Homo sapiens chromosome 17 open reading frame 28 (C17orf28), mRNA Homo sapiens KIAA1712 (KIAA1712), mRNA
NM 030634	Homo sapiens xiAA1712 (KIAA1712), mRNA Homo sapiens zinc finger protein 436 (ZNF436), mRNA
NM_030636	Homo sapiens KIAA1706 protein (KIAA1706), mRNA
NM_030637	Home sapiens DDHD demain containing 4 (DDLIDA) DNA
NM_030639	Homo sapiens DDHD domain containing 1 (DDHD1), mRNA Homo sapiens KIAA1701 protein (KIAA1701), mRNA
NM_030640	Homo sapiens dual specificity phosphatase 16 (DUSP16), mRNA
NM_030644	Home seniors analigopratein I. 3 (APOL 3) transmitted to the first transmitted to the first transmitted to the first transmitted to the first transmitted transmitted to the first transmitted transmi
NM_030645	Homo sapiens apolipoprotein L, 3 (APOL3), transcript variant alpha/b, mRN/2 Homo sapiens KIAA1720 protein (KIAA1720), mRNA
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NM_030650	Homo sapiens KIAA1715 (KIAA1715), mRNA
NM_030789	Homo sapiens histocompatibility (minor) 13 (HM13), transcript variant 1, mRI
NM_030812	Homo sapiens actin like protein (LOC81569), mRNA
NM_030883	Homo sapiens olfactory receptor, family 2, subfamily H, member 1 (OR2H1),
NM_030906	Homo sapiens serine/threonine kinase 33 (STK33), mRNA
NM_030919	Homo sapiens chromosome 20 open reading frame 129 (C20orf129), mRNA
NM_030922	Homo sapiens non-imprinted in Prader-Willi/Angelman syndrome 2 (NIPA2),
NM_030923	Homo sapiens hypothetical protein DKFZp566N034 (DKFZP566N034), mRN
NM_030949	Homo sapiens protein phosphatase 1, regulatory (inhibitor) subunit 14C (PPF
NM_030957	Homo sapiens a disintegrin-like and metalloprotease (reprolysin type) with the
NM_030961	Homo sapiens tripartite motif-containing 56 (TRIM56), mRNA Homo sapiens Charcot-Marie-Tooth neuropathy 4B2 (autosomal recessive, v
NM_030962 NM_031303	Homo sapiens cinarco-mane-noutrinedropatry 4B2 (autosoma recessive, v Homo sapiens similar to RIKEN cDNA 4933439B08 gene (MGC33211), mRN
NM 031444	Homo sapiens chromosome 22 open reading frame 13 (C22orf13), mRNA
NM 031448	Homo sapiens chromosome 19 open reading frame 12 (C19orf12), mRNA
NM 031454	Homo sapiens selenoprotein O (SELO), mRNA
NM 031467	Homo sapiens solute carrier family 4, sodium bicarbonate cotransporter, mer
NM 031490	Homo sapiens peroxisomal lon protease (LONP), mRNA
NM 031888	Homo sapiens pro-melanin-concentrating hormone-like 2 (PMCHL2), mRNA
NM_031895	Homo sapiens calcium channel, voltage-dependent, gamma subunit 8 (CACI
NM_031912	Homo sapiens synaptotagmin XV (SYT15), transcript variant a, mRNA
NM 031913	Homo sapiens chr3 synaptotagmin (CHR3SYT), mRNA
NM 031914	Homo sapiens synaptotagmin XIV-like (SYT14L), mRNA
NM_031935	Homo sapiens hemicentin (FIBL-6), mRNA
NM_032017	Homo sapiens Ser/Thr-like kinase (MGC4796), mRNA
NM_032111	Homo sapiens mitochondrial ribosomal protein L14 (MRPL14), nuclear gene
NM_032119	Homo sapiens monogenic, audiogenic seizure susceptibility 1 homolog (mou
NM_032123	Homo sapiens kin of IRRE like 2 (Drosophila) (KIRREL2), transcript variant 1
NM_032132	Homo sapiens HORMA domain containing protein (NOHMA), mRNA
NM_032137	Homo sapiens hypothetical protein DKFZp434N1817 (DKFZP434N1817), mf
NM_032156	Homo sapiens C1q domain containing 1 (C1QDC1), transcript variant 3, mRI
NM_032160	Homo sapiens chromosome 18 open reading frame 4 (C18orf4), mRNA
NM_032165	Homo sapiens hypothetical protein FLJ12303 (FLJ12303), mRNA
NM_032168	Homo sapiens hypothetical protein FLJ12519 (FLJ12519), mRNA
NM_032194	Homo sapiens brix domain containing 1 (BXDC1), mRNA
NM_032195	Homo sapiens SON DNA binding protein (SON), transcript variant b, mRNA
NM_032217	Homo sapiens ankyrin repeat domain 17 (ANKRD17), transcript variant 1, ml
NM_032222	Homo sapiens hypothetical protein FLJ22374 (FLJ22374), mRNA
NM_032226	Homo sapiens zinc finger, CCHC domain containing 7 (ZCCHC7), mRNA
NM_032228 NM_032230	Homo sapiens male sterility domain containing 2 (MLSTD2), mRNA Homo sapiens hypothetical protein FLJ22789 (FLJ22789), mRNA
NM 032279	Homo sapiens hypothetical protein DKFZp761I1011 (DKFZp761I1011), mRN
NM_032282	Homo sapiens hypothetical protein DKFZp547D155 (DKFZp547D155), mRN.
NM_032283	Homo sapiens tripped letteral protein Brit 2po+15 100 (Brit 2po+15 100), mRNA
NM_032285	Homo sapiens hypothetical protein MGC3207 (MGC3207), mRNA
NM_032286	Homo sapiens hypothetical protein MGC5309 (MGC5309), mRNA
NM 032422	Homo sapiens G protein-coupled receptor 123 (GPR123), mRNA
NM_032423	Homo sapiens zinc finger protein 528 (ZNF528), mRNA
NM 032425	Homo sapiens KIAA1822 (KIAA1822), mRNA
NM 032427	Homo sapiens mastermind-like 2 (Drosophila) (MAML2), mRNA
NM 032429	Homo sapiens leucine zipper, putative tumor suppressor 2 (LZTS2), mRNA
NM_032430	Homo sapiens KIAA1811 protein (KIAA1811), mRNA
NM_032431	Homo sapiens HRD1 protein (HRD1), transcript variant 1, mRNA
NM_032432	Homo sapiens actin binding LIM protein family, member 2 (ABLIM2), mRNA
NM_032433	Homo sapiens zinc finger protein 333 (ZNF333), mRNA
NM_032434	Homo sapiens zinc finger protein 512 (ZNF512), mRNA
NM_032435	Homo sapiens mixed lineage kinase 4 (KIAA1804), mRNA

NM_032436	Homo sapiens chromosome 13 open reading frame 8 (C13orf8), mRNA
NM 032439	Homo sapiens phytanoyl-CoA hydroxylase interacting protein-like (PHYHIPL)
NM 032440	Homo sapiens ligand-dependent corepressor (MLR2), mRNA
NM 032444	Homo sapiens BTB (POZ) domain containing 12 (BTBD12), mRNA
NM 032448	Homo sapiens KIAA1838 (KIAA1838), mRNA
NM 032452	Homo sapiens junctophilin 4 (JPH4), mRNA
NM 032458	Homo sapiens PHD finger protein 6 (PHF6), mRNA
NM_032477	Homo sapiens mitochondrial ribosomal protein L41 (MRPL41), nuclear gene
NM 032478	Homo sapiens mitochondrial ribosomal protein L38 (MRPL38), nuclear gene
NM_032479	Homo sapiens mitochondrial ribosomal protein L36 (MRPL36), nuclear gene
NM 032482	Homo sapiens DOT1-like, histone H3 methyltransferase (S. cerevisiae) (DOT
NM 032497	Homo sapiens zinc finger protein 559 (ZNF559), mRNA
NM 032501	Homo sapiens acetyl-Coenzyme A synthetase 2 (AMP forming)-like (ACAS2I
NM 032505	Homo sapiens T-cell activation kelch repeat protein (TA-KRP), mRNA
NM 032506	Homo sapiens KIAA1841 protein (KIAA1841), mRNA
NM 032508	Homo sapiens family with sequence similarity 11, member A (FAM11A), mRt
NM_032511	Homo sapiens chromosome 6 open reading frame 168 (C6orf168), mRNA
NM_032512	Homo sapiens PDZ domain containing 4 (PDZK4), mRNA
NM 032517	Homo sapiens lysozyme-like 1 (LYZL1), mRNA
NM 032528	Homo sapiens beta-galactoside alpha-2,6-sialyltransferase II (ST6GalII), mR
NM_032531	Homo sapiens kin of IRRE like 3 (Drosophila) (KIRREL3), mRNA
NM 032536	Homo sapiens netrin G2 (NTNG2), mRNA
NM_032539	Homo sapiens SLIT and NTRK-like family, member 2 (SLITRK2), mRNA
NM 032550	Homo sapiens KIAA1914 (KIAA1914), transcript variant 2, mRNA
NM_032552	Homo sapiens DAB2 interacting protein (DAB2IP), mRNA
NM 032569	Homo sapiens cytokine-like nuclear factor n-pac (N-PAC), mRNA
NM 032590	Homo sapiens F-box and leucine-rich repeat protein 10 (FBXL10), mRNA
NM 032636	Homo sapiens differential display and activated by p53 (DDA3), mRNA
NM 032869	Homo sapiens chronic myelogenous leukemia tumor antigen 66 (CML66), ml
NM 032870	Homo sapiens chromosome 6 open reading frame 111 (C6orf111), mRNA
NM 032947	Homo sapiens putative small membrane protein NID67 (NID67), mRNA
NM 033026	Homo sapiens piccolo (presynaptic cytomatrix protein) (PCLO), transcript vai
NM 033046	Homo sapiens rhotekin (RTKN), mRNA
NM_033052	Homo sapiens DMRT-like family C2 (DMRTC2), mRNA
NM_033053	Homo sapiens DMRT-like family C1 (DMRTC1), mRNA
NM_033055	Homo sapiens hippocampus abundant transcript 1 (HIAT1), mRNA
NM_033063	Homo sapiens microtubule-associated protein 6 (MAP6), transcript variant 1,
NM_033064	Homo sapiens ataxia, cerebellar, Cayman type (caytaxin) (ATCAY), mRNA
NM_033067	Homo sapiens DMRT-like family B with proline-rich C-terminal, 1 (DMRTB1),
NM_033071	Homo sapiens spectrin repeat containing, nuclear envelope 1 (SYNE1), trans
NM_033082	Homo sapiens cytokine induced protein 29 kDa (CIP29), mRNA
NM_033086	Homo sapiens FGD1 family, member 3 (FGD3), mRNA
NM_033088	Homo sapiens family with sequence similarity 40, member A (FAM40A), mRI
NM_033090	Homo sapiens GREB1 protein (GREB1), transcript variant b, mRNA
NM_033107	Homo sapiens hypothetical protein BC004923 (LOC85865), mRNA
NM_033109	Homo sapiens polyribonucleotide nucleotidyltransferase 1 (PNPT1), mRNA
NM_033112	Homo sapiens chromosome 6 open reading frame 153 (C6orf153), mRNA
NM_033121	Homo sapiens ankyrin repeat domain 13 (ANKRD13), mRNA
NM_033129	Homo sapiens scratch homolog 2, zinc finger protein (Drosophila) (SCRT2),
NM_033141	Homo sapiens mitogen-activated protein kinase kinase kinase 9 (MAP3K9), I
NM_033160	Homo sapiens DKFZP572C163 protein (DKFZP572C163), mRNA
NM_033161	Homo sapiens surfeit 4 (SURF4), mRNA
NM_033200	Homo sapiens hypothetical protein BC002942 (BC002942), mRNA
NM_033201	Homo sapiens hypothetical gene BC008967 (BC008967), mRNA
NM_033206	Homo sapiens hypothetical gene FLJ00060 (FLJ00060), mRNA
NM_033253	Homo sapiens 5'-nucleotidase, cytosolic IB (NT5C1B), transcript variant 2, m
NM_033267	Homo sapiens iroquois homeobox protein 2 (IRX2), mRNA
14111_000201	Homo sapiens iroquois nomeobox protein 2 (inx2), mr.va

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NM_033271	Homo sapiens BTB (POZ) domain containing 6 (BTBD6), mRNA
NM_033276	Homo sapiens Ku70-binding protein 3 (KUB3), mRNA
NM_033288	Homo sapiens zinc finger protein 160 (ZNF160), transcript variant 1, mRNA
NM_033364	Homo sapiens chromosome 3 open reading frame 15 (C3orf15), mRNA
NM_033375	Homo sapiens myosin IC (MYO1C), mRNA
NM_033386	Homo sapiens molecule interacting with Rab13 (MIRAB13), mRNA
NM_033387	Homo sapiens chromosome 9 open reading frame 59 (C9orf59), mRNA
NM_033389	Homo sapiens slingshot homolog 2 (Drosophila) (SSH2), mRNA
NM_033392	Homo sapiens mitogen-activated protein kinase 8 interacting protein 3 (MAP)
NM_033393	Homo sapiens KIAA1727 protein (KIAA1727), mRNA
NM_033396	Homo sapiens tankyrase 1 binding protein 1, 182kDa (TNKS1BP1), mRNA
NM_033397	Homo sapiens KIAA1754 (KIAA1754), mRNA
NM_033402	Homo sapiens KIAA1764 protein (KIAA1764), mRNA
NM_033404	Homo sapiens kinase non-catalytic C-lobe domain (KIND) containing 1 (KND
NM_033405	Homo sapiens peroxisomal proliferator-activated receptor A interacting comp
NM_033407	Homo sapiens dedicator of cytokinesis 7 (DOCK7), mRNA
NM_033425	Homo sapiens DIX domain containing 1 (DIXDC1), mRNA
NM 033426	Homo sapiens KIAA1737 (KIAA1737), mRNA
NM 033429	Homo sapiens calmodulin-like 4 (CALML4), mRNA
NM_033449	Homo sapiens FCH and double SH3 domains 1 (FCHSD1), mRNA
NM_033450	Homo sapiens ATP-binding cassette, sub-family C (CFTR/MRP), member 10
NM 033452	Homo sapiens tripartite motif-containing 47 (TRIM47), mRNA
NM_033505	Homo sapiens selenoprotein I, 1 (SELI), mRNA
NM 033510	Homo sapiens dispatched homolog 2 (Drosophila) (DISP2), mRNA
NM 033512	Homo sapiens TSPY-like 5 (TSPYL5), mRNA
NM 033513	Homo sapiens chromosome 19 open reading frame 20 (C19orf20), mRNA
NM 033520	Homo sapiens chromosome 19 open reading frame 33 (C19orf33), mRNA
NM 033542	Homo sapiens chromosome 20 open reading frame 35 (C20orf35), mRNA
NM_033548	Homo sapiens similar to ZINC FINGER PROTEIN 257 (BONE MARROW ZIN
NM_033553	Homo sapiens guanylate cyclase activator 2A (guanylin) (GUCA2A), mRNA
NM_033557	Homo sapiens similar to putative transmembrane protein; homolog of yeast (
NM 033631	Homo sapiens leucine zipper protein 1 (LUZP1), mRNA
NM_033647	Homo sapiens helicase (DNA) B (HELB), mRNA
NM_033666	Homo sapiens integrin, beta 1 (fibronectin receptor, beta polypeptide, antiger
NM_033667	Homo sapiens integrin, beta 1 (fibronectin receptor, beta polypeptide, antiger
NM_033668	Homo sapiens integrin, beta 1 (fibronectin receptor, beta polypeptide, antiger
NM 033669	Homo sapiens integrin, beta 1 (fibronectin receptor, beta polypeptide, antiger
NM_052843	Homo sapiens obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF
NM_052846	Homo sapiens elastin microfibril interfacer 3 (EMILIN3), mRNA
NM_052847	Homo sapiens guanine nucleotide binding protein (G protein), gamma 7 (GN
NM 052849	Homo sapiens hypothetical protein MGC20481 (MGC20481), mRNA
NM_052850	Homo sapiens growth arrest and DNA-damage-inducible, gamma interacting
NM_052857	Homo sapiens hypothetical protein MGC20398 (MGC20398), mRNA
_	Homo sapiens TRAF2 binding protein (T2BP), mRNA
NM_052864	Homo sapiens voltage gated channel like 1 (VGCNL1), mRNA
NM_052867	Homo sapiens chromosome 19 open reading frame 36 (C19orf36), mRNA
NM_052878	
NM_052892	Homo sapiens polycystic kidney disease 1-like 2 (PKD1L2), transcript variant
NM_052896	Homo sapiens CUB and Sushi multiple domains 2 (CSMD2), mRNA
NM_052897	Homo sapiens methyl-CpG binding domain protein 6 (MBD6), mRNA
NM_052899	Homo sapiens G protein-regulated inducer of neurite outgrowth 1 (KIAA1893
NM_052900	Homo sapiens CUB and Sushi multiple domains 3 (CSMD3), transcript variat
NM_052901	Homo sapiens solute carrier family 25 (mitochondrial carrier; phosphate carri
NM_052902	Homo sapiens serine/threonine kinase 11 interacting protein (STK11IP), mRI
NM_052903	Homo sapiens tubulin, gamma complex associated protein 5 (TUBGCP5), m
NM_052904	Homo sapiens KIAA1900 (KIAA1900), mRNA
NM_052905	Homo sapiens formin-like 2 (FMNL2), mRNA
NM_052909	Homo sapiens KIAA1909 protein (KIAA1909), mRNA

NM_052910	Homo sapiens SLIT and NTRK-like family, member 1 (SLITRK1), mRNA
NM 052911	Homo sapiens establishment factor-like protein (EFO1), mRNA
NM 052913	Homo sapiens KIAA1913 (KIAA1913), mRNA
NM_052917	Homo sapiens UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylga
NM 052923	Homo sapiens zinc finger protein 452 (ZNF452), mRNA
NM 052924	Homo sapiens rhophilin, Rho GTPase binding protein 1 (RHPN1), mRNA
NM 052925	Homo sapiens leukocyte receptor cluster (LRC) member 8 (LENG8), mRNA
NM 052926	Homo sapiens paraneoplastic antigen like 5 (PNMA5), mRNA
NM 052928	Homo sapiens SET and MYND domain containing 4 (SMYD4), mRNA
NM 052937	Homo sapiens similar to hypothetical protein FLJ10883 (LOC115294), mRN/
NM 052964	Homo sapiens mast cell immunoreceptor signal transducer (MIST), mRNA
NM_052965	Homo sapiens throughout a pen reading frame 19 (C1orf19), mRNA
NM_053041	Homo sapiens COMM domain containing 7 (COMMD7), mRNA
NM 053044	Homo sapiens serine protease HTRA3 (HTRA3), mRNA
_	
NM_053051	Homo sapiens LYST-interacting protein LIP8 (LIP8), mRNA
NM_053052	Homo sapiens SVAP1 protein (IMAGE3451454), mRNA
NM_053277	Homo sapiens chloride intracellular channel 6 (CLIC6), mRNA
NM_053279	Homo sapiens chromosome 8 open reading frame 13 (C8orf13), mRNA
NM_053282	Homo sapiens SH2 domain-containing molecule EAT2 (EAT2), mRNA
NM_054104	Homo sapiens olfactory receptor, family 6, subfamily C, member 3 (OR6C3),
NM_054105	Homo sapiens olfactory receptor, family 6, subfamily C, member 2 (OR6C2), Homo sapiens gonadotropin-releasing hormone (type 2) receptor 2 (GNRHR
NM_057163 NM_058163	Homo sapiens gonadotropin-releasing nominale (type 2) receptor 2 (GNRAR Homo sapiens hypothetical protein DT1P1A10 (DT1P1A10), mRNA
NM_058243	Homo sapiens hypothetical protein DTTFTATO (DTTFTATO), mixtox Homo sapiens bromodomain containing 4 (BRD4), transcript variant long, mf
NM 080574	Homo sapiens chromosome 20 open reading frame 70 (C20orf70), mRNA
NM 080614	Homo sapiens WAP four-disulfide core domain 3 (WFDC3), transcript varian
NM_080618	Homo sapiens CCCTC-binding factor (zinc finger protein)-like (CTCFL), mRN
NM 080622	Homo sapiens chromosome 20 open reading frame 135 (C20orf135), mRNA
NM 080725	Homo sapiens chromosome 20 open reading frame 139 (C20orf139), mRNA
NM_080747	Homo sapiens keratin protein K6irs (K6IRS2), mRNA
NM 080751	Homo sapiens transmembrane channel-like 2 (TMC2), mRNA
NM 080753	Homo sapiens WAP four-disulfide core domain 10A (WFDC10A), mRNA
NM 080757	Homo sapiens chromosome 20 open reading frame 127 (C20orf127), mRNA
NM_080764	Homo sapiens suppressor of hairy wing homolog 2 (Drosophila) (SUHW2), n
NM_080827	Homo sapiens WAP four-disulfide core domain 6 (WFDC6), mRNA
NM 080833	Homo sapiens chromosome 20 open reading frame 151 (C20orf151), mRNA
NM 080836	Homo sapiens serine/threonine kinase 35 (STK35), mRNA
NM 080865	Homo sapiens G protein-coupled receptor 62 (GPR62), mRNA
NM_080866	Homo sapiens solute carrier family 22 (organic anion/cation transporter), mei
NM 080868	Homo sapiens ankyrin repeat and SOCS box-containing 17 (ASB17), mRNA
NM_080869	Homo sapiens WAP four-disulfide core domain 12 (WFDC12), mRNA
NM 080875	Homo sapiens skeletrophin (LOC142678), mRNA
NM_080877	Homo sapiens solute carrier family 34 (sodium phosphate), member 3 (SLC3
NM_080911	Homo sapiens uracil-DNA glycosylase (UNG), nuclear gene encoding mitoch
NM_080928	Homo sapiens ankyrin repeat and SOCS box-containing 15 (ASB15), mRNA
NM_101395	Homo sapiens dual-specificity tyrosine-(Y)-phosphorylation regulated kinase
NM_130391	Homo sapiens protein tyrosine phosphatase, receptor type, D (PTPRD), trans
NM_130392	Homo sapiens protein tyrosine phosphatase, receptor type, D (PTPRD), tran:
NM_130393	Homo sapiens protein tyrosine phosphatase, receptor type, D (PTPRD), trans
NM 130435	Homo sapiens protein tyrosine phosphatase, receptor type, E (PTPRE), trans
NM_130436	Homo sapiens dual-specificity tyrosine-(Y)-phosphorylation regulated kinase
NM_130437	Homo sapiens dual-specificity tyrosine-(Y)-phosphorylation regulated kinase
NM 130438	Homo sapiens dual-specificity tyrosine-(Y)-phosphorylation regulated kinase
NM_130440	Homo sapiens protein tyrosine phosphatase, receptor type, F (PTPRF), trans
NM 130442	Homo sapiens engulfment and cell motility 1 (ced-12 homolog, C. elegans) (I
NM_130444	Homo sapiens collagen, type XVIII, alpha 1 (COL18A1), transcript variant 3, i
NM_130445	Homo sapiens collagen, type XVIII, alpha 1 (COL18A1), transcript variant 2, I
	

NM_130465	
NM_130466	Homo sapiens ubiquitin protein ligase E3B (UBE3B), transcript variant 1, mR
NM_130470	Homo sapiens MAP-kinase activating death domain (MADD), transcript varia
NM_130471	Homo sapiens MAP-kinase activating death domain (MADD), transcript varia
NM_130472	Homo sapiens MAP-kinase activating death domain (MADD), transcript varia
NM_130473	Homo sapiens MAP-kinase activating death domain (MADD), transcript varia
NM_130474	Homo sapiens MAP-kinase activating death domain (MADD), transcript varia
NM_130475	Homo sapiens MAP-kinase activating death domain (MADD), transcript varia
NM_130476	Homo sapiens MAP-kinase activating death domain (MADD), transcript varia
NM_130760	Homo sapiens mucosal vascular addressin cell adhesion molecule 1 (MADC.
NM_130761	Homo sapiens mucosal vascular addressin cell adhesion molecule 1 (MADC.
NM_130762	Homo sapiens mucosal vascular addressin cell adhesion molecule 1 (MADC
NM_130766	Homo sapiens skeletal muscle and kidney enriched inositol phosphatase (Sk
NM_130771	Homo sapiens osteoclast-associated receptor (OSCAR), transcript variant 3,
NM 130775	Homo sapiens XAGE-5 protein (XAGE-5), mRNA
NM_130776	Homo sapiens G antigen, family D, 4 (GAGED4), transcript variant 2, mRNA
NM_130777	Homo sapiens G antigen, family D, 3 (GAGED3), mRNA
NM 130788	Homo sapiens WW domain containing oxidoreductase (WWOX), transcript v
NM_130790	Homo sapiens WW domain containing oxidoreductase (WWOX), transcript v
NM 130791	Homo sapiens WW domain containing oxidoreductase (WWOX), transcript v
NM 130792	Homo sapiens WW domain containing oxidoreductase (WWOX), transcript v
NM_130793	Homo sapiens nucleolar protein family 6 (RNA-associated) (NOL6), transcrip
NM_130794	Homo sapiens cystatin 11 (CST11), transcript variant 1, mRNA
NM_130797	Homo sapiens dipeptidylpeptidase 6 (DPP6), transcript variant 1, mRNA
NM_130798	Homo sapiens synaptosomal-associated protein, 23kDa (SNAP23), transcrip
NM 130799	Homo sapiens multiple endocrine neoplasia I (MEN1), transcript variant 2, m
NM_130800	Homo sapiens multiple endocrine neoplasia I (MEN1), transcript variant e1B,
NM_130801	Homo sapiens multiple endocrine neoplasia I (MEN1), transcript variant e1C,
NM_130802	Homo sapiens multiple endocrine neoplasia I (MEN1), transcript variant e1D,
NM_130803	Homo sapiens multiple endocrine neoplasia I (MEN1), transcript variant e1E,
NM 130804	Homo sapiens multiple endocrine neoplasia I (MEN1), transcript variant e1E;
NM_130806	Homo sapiens leucine-rich repeat-containing G protein-coupled receptor 8 (L
NM_130807	Homo sapiens MOB1, Mps One Binder kinase activator-like 2A (yeast) (MOB
NM_130808	Homo sapiens copine IV (CPNE4), mRNA
NM_130809	Homo sapiens hypothetical protein MGC12103 (LOC133619), mRNA
NM_130810	Homo sapiens dyslexia susceptibility 1 candidate 1 (DYX1C1), mRNA
NM 130811	Homo sapiens synaptosomal-associated protein, 25kDa (SNAP25), transcrip
NM_130830	Homo sapiens leucine rich repeat containing 15 (LRRC15), mRNA
NM_130831	Homo sapiens optic atrophy 1 (autosomal dominant) (OPA1), nuclear gene e
NM_130832	Homo sapiens optic atrophy 1 (autosomal dominant) (OPA1), nuclear gene e
NM_130833	Homo sapiens optic atrophy 1 (autosomal dominant) (OPA1), nuclear gene e
NM_130834	Homo sapiens optic atrophy 1 (autosomal dominant) (OPA1), nuclear gene e
NM_130835	Homo sapiens optic atrophy 1 (autosomal dominant) (OPA1), nuclear gene e
NM_130836	Homo sapiens optic atrophy 1 (autosomal dominant) (OPA1), nuclear gene e
NM_130837	Homo sapiens optic atrophy 1 (autosomal dominant) (OPA1), nuclear gene e
NM_130838	Homo sapiens ubiquitin protein ligase E3A (human papilloma virus E6-assoc
NM_130839	Homo sapiens ubiquitin protein ligase E3A (human papilloma virus E6-assoc
NM_130840	Homo sapiens ATPase, H+ transporting, lysosomal V0 subunit a isoform 4 (#
NM_130841	Homo sapiens ATPase, H+ transporting, lysosomal V0 subunit a isoform 4 (/
NM_130842	Homo sapiens protein tyrosine phosphatase, receptor type, N polypeptide 2
NM_130843	Homo sapiens protein tyrosine phosphatase, receptor type, N polypeptide 2 (
NM_130844	Homo sapiens WW domain containing oxidoreductase (WWOX), transcript v
NM_130845	Homo sapiens syntrophin, beta 2 (dystrophin-associated protein A1, 59kDa,
NM_130846	Homo sapiens protein tyrosine phosphatase, receptor type, R (PTPRR), trans
NM_130847	Homo sapiens angiomotin like 1 (AMOTL1), mRNA
NM_130848	Homo saplens dendritic cell nuclear protein 1 (DCNP1), mRNA
NM_130849	Homo sapiens solute carrier family 39 (zinc transporter), member 4 (SLC39A
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NM_130850	Homo sapiens bone morphogenetic protein 4 (BMP4), transcript variant 2, m
NM_130851	Homo sapiens bone morphogenetic protein 4 (BMP4), transcript variant 3, m
NM_130852	Homo sapiens palate, lung and nasal epithelium carcinoma associated (PLU
NM_130853	Homo saplens protein tyrosine phosphatase, receptor type, S (PTPRS), trans
NM_130854	Homo sapiens protein tyrosine phosphatase, receptor type, S (PTPRS), trans
NM_130855	Homo sapiens protein tyrosine phosphatase, receptor type, S (PTPRS), trans
NM_130896	Homo sapiens WAP four-disulfide core domain 8 (WFDC8), transcript varian
NM_130897	Homo sapiens dynein, cytoplasmic, light polypeptide 2B (DNCL2B), mRNA
NM 130898	Homo sapiens cAMP responsive element binding protein 3-like 4 (CREB3L4)
NM_130899	Homo sapiens hypothetical protein MGC26988 (MGC26988), mRNA
NM_130900	Homo sapiens retinoic acid early transcript 1L (RAET1L), mRNA
NM_130901	Homo sapiens chromosome 15 open reading frame 16 (C15orf16), mRNA
NM_130902	Homo sapiens cytochrome c oxidase subunit VIIb2 (COX7B2), mRNA
NM_130906	Homo sapiens peptidylprolyl isomerase (cyclophilin)-like 3 (PPIL3), transcript
NM_131915	Homo sapiens similar to hypothetical protein DKFZp434K191 (H. sapiens) (L
NM_131916	Homo sapiens peptidylprolyl isomerase (cyclophilin)-like 3 (PPIL3), transcript
NM_131917	Homo sapiens Fas (TNFRSF6) associated factor 1 (FAF1), transcript variant
NM_133168	Homo sapiens osteoclast-associated receptor (OSCAR), transcript variant 5,
NM_133169	Homo saplens osteoclast-associated receptor (OSCAR), transcript variant 5,
NM 133170	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPRT), trans
NM_133171	Homo sapiens engulfment and cell motility 2 (ced-12 homolog, C. elegans) (I
NM_133172	Homo sapiens amyloid beta (A4) precursor protein-binding, family B, membe
NM_133173	Homo sapiens amyloid beta (A4) precursor protein-binding, family B, membe
NM_133174	Homo sapiens amyloid beta (A4) precursor protein-binding, family B, membe
NM_133175	Homo sapiens amyloid beta (A4) precursor protein-binding, family B, membe
NM_133176	Homo sapiens amyloid beta (A4) precursor protein-binding, family B, membe
NM_133177	Homo sapiens protein tyrosine phosphatase, receptor type, U (PTPRU), trans
NM_133178	Homo sapiens protein tyrosine phosphatase, receptor type, U (PTPRU), trans
NM_133179	Homo sapiens G antigen, family D, 4 (GAGED4), transcript variant 1, mRNA
NM 133180	Homo sapiens EPS8-like 1 (EPS8L1), transcript variant 1, mRNA
NM_133181	Homo sapiens EPS8-like 3 (EPS8L3), transcript variant 2, mRNA
NM_133259	Homo sapiens leucine-rich PPR-motif containing (LRPPRC), mRNA
NM_133261	Homo sapiens PDZ domain protein GIPC3 (GIPC3), mRNA
NM 133262	Homo sapiens ATPase, H+ transporting, lysosomal 13kDa, V1 subunit G isol
NM_133263	Homo sapiens peroxisome proliferative activated receptor, gamma, coactivat
NM_133264	Homo sapiens WIRE protein (WIRE), mRNA
NM_133265	Homo sapiens angiomotin (AMOT), mRNA
NM_133266	Homo sapiens SH3 and multiple ankyrin repeat domains 2 (SHANK2), transc
NM 133267	Homo sapiens homeobox protein GSH-2 (GSH-2), mRNA
NM_133268	Homo sapiens oxysterol binding protein-like 1A (OSBPL1A), transcript varian
NM_133269	Homo sapiens Fc fragment of IgA, receptor for (FCAR), transcript variant 2, r
NM_133271	Homo sapiens Fc fragment of IgA, receptor for (FCAR), transcript variant 3, r
NM_133272	Homo sapiens Fc fragment of IgA, receptor for (FCAR), transcript variant 4, r
NM_133273	Homo sapiens Fc fragment of IgA, receptor for (FCAR), transcript variant 5, r
NM_133274	Homo sapiens Fc fragment of IgA, receptor for (FCAR), transcript variant 6, r
NM_133277	Homo sapiens Fc fragment of IgA, receptor for (FCAR), transcript variant 7, r
NM 133278	Homo sapiens Fc fragment of IgA, receptor for (FCAR), transcript variant 8, r
NM_133279	Homo sapiens Fc fragment of IgA, receptor for (FCAR), transcript variant 9, r
NM_133280	Homo sapiens Fc fragment of IgA, receptor for (FCAR), transcript variant 10,
NM_133282	Homo sapiens RAD1 homolog (S. pombe) (RAD1), transcript variant 2, mRN
NM_133325	Homo sapiens PHD finger protein 10 (PHF10), transcript variant 2, mRNA
NM_133326	Homo sapiens ATPase, H+ transporting, lysosomal 13kDa, V1 subunit G isol
NM_133327	Homo sapiens sema domain, transmembrane domain (TM), and cytoplasmic
NM_133328	Homo sapiens death effector domain containing 2 (DEDD2), mRNA
NM_133329	Homo sapiens potassium voltage-gated channel, subfamily G, member 3 (KC
NM_133330	Homo sapiens Wolf-Hirschhorn syndrome candidate 1 (WHSC1), transcript v
NM_133331	Homo sapiens Wolf-Hirschhorn syndrome candidate 1 (WHSC1), transcript v
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NM_133332	Homo sapiens Wolf-Hirschhorn syndrome candidate 1 (WHSC1), transcript v
NM_133333	 Homo sapiens Wolf-Hirschhorn syndrome candidate 1 (WHSC1), transcript y
NM_133334	 Homo sapiens Wolf-Hirschhorn syndrome candidate 1 (WHSC1) transcript y
NM_133335	Homo sapiens Wolf-Hirschhorn syndrome candidate 1 (WHSC1) transcript v
NM_133336	Homo sapiens Wolf-Hirschhorn syndrome candidate 1 (WHSC1), transcript v
NM_133337	Homo sapiens ter-1-like 3, myoferlin (C. elegans) (FFR1L3) transcript varian
NM_133338	Homo sapiens RAD17 homolog (S. pombe) (RAD17), transcript variant 1, mf
NM_133339	Homo sapiens RAD17 homolog (S. pombe) (RAD17), transcript variant 2, mf
NM_133340	Homo sapiens RAD17 homolog (S. pombe) (RAD17), transcript variant 3, mF
NM_133341	Homo sapiens RAD17 homolog (S. pombe) (RAD17), transcript variant 4, mF
NM_133342	Homo sapiens RAD17 homolog (S. pombe) (RAD17), transcript variant 5, mF
NM_133343	Homo sapiens RAD17 homolog (S. pombe) (RAD17), transcript variant 6, mF
NM_133344	Homo sapiens RAD17 homolog (S. pombe) (RAD17), transcript variant 7, mF
NM_133367	Homo sapiens chromosome 6 open reading frame 33 (C6orf33), mRNA
NM_133368	Homo sapiens KIAA1972 protein (KIAA1972), mRNA
NM_133370	Homo sapiens splicing factor YT521-B (YT521), mRNA
NM_133371	Homo sapiens myozenin 3 (MYOZ3), mRNA
NM_133373	Homo sapiens phospholipase C, delta 3 (PLCD3), mRNA
NM_133375	Homo sapiens hypothetical protein MGC4562 (MGC4562), mRNA
NM_133376	Homo sapiens integrin, beta 1 (fibronectin receptor, beta polypeptide, antiger
NM_133377	Homo sapiens RAD1 homolog (S. pombe) (RAD1), transcript variant 3, mRN
NM_133378	Homo saplens titin (TTN), transcript variant N2-A, mRNA
NM_133379	Homo sapiens titin (TTN), transcript variant novex-3, mRNA
NM_133430	Homo sapiens G antigen, family D, 2 (GAGED2), transcript variant 3, mRNA
NM_133431	Homo sapiens G antigen, family D, 2 (GAGED2), transcript variant 2, mRNA
NM_133432	Homo sapiens titin (TTN), transcript variant novex-1, mRNA
NM_133433	Homo sapiens Nipped-B homolog (Drosophila) (NIPBL), transcript variant A.
NM_133436	Homo sapiens asparagine synthetase (ASNS), transcript variant 1, mRNA
NM_133437	Homo sapiens titin (TTN), transcript variant novex-2. mRNA
NM_133439	Homo sapiens transcriptional adaptor 2 (ADA2 homolog, yeast)-like (TADA2)
NM_133443	Homo sapiens glutamic pyruvate transaminase (alanine aminotransferase) 2
NM_133444	Homo sapiens zinc finger protein 526 (ZNF526), mRNA
NM_133445	Homo sapiens glutamate receptor, ionotropic, N-methyl-D-aspartate 3A (GRI
NM_133446	Homo sapiens centaurin, gamma-like family, member 1 (CTGLF1), mRNA
NM_133448	Homo sapiens KIAA1944 protein (KIAA1944), mRNA
NM_133450	Homo sapiens KIAA1977 protein (KIAA1977), mRNA
NM_133452	Homo sapiens RAVER1 (RAVER1), mRNA
NM_133455	Homo sapiens EMI domain containing 1 (EMID1), mRNA
NM_133456	Homo sapiens apical protein 2 (APXL2), mRNA
NM_133457	Homo sapiens EMI domain containing 2 (EMID2), mRNA
NM_133459	Homo sapiens KIAA1983 protein (FLJ30681), mRNA
NM_133462	Homo sapiens tetratricopeptide repeat domain 14 (TTC14), mRNA
NM_133466 NM_133467	Homo sapiens zinc finger protein 545 (ZNF545), mRNA
	Homo sapiens Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy
NM_133468 NM_133473	Homo sapiens BMP-binding endothelial regulator precursor protein (BMPER)
NM_133474	Homo sapiens zinc finger protein 431 (ZNF431), mRNA
NM_133474	Homo sapiens KIAA1982 protein (KIAA1982), mRNA
NM_133478	Homo sapiens zinc finger protein 384 (ZNF384), mRNA
NM_133479	Homo sapiens solute carrier family 4, sodium bicarbonate cotransporter, mer
NM_133480	Homo sapiens solute carrier family 4, sodium bicarbonate cotransporter, mer
NM_133481	Homo sapiens transcriptional adaptor 3 (NGG1 homolog, yeast)-like (TADA3 Homo sapiens transcriptional adaptor 3 (NGG1 homolog, yeast)-like (TADA3
NM 133482	Homo sapiens transcriptional adaptor 3 (NGG1 nomolog, yeast)-like (TADA3 Homo sapiens RAD50 homolog (S. cerevisiae) (RAD50), transcript variant 2,
NM_133483	Homo sapiens RAC/CDC42 exchange factor (GEFT), transcript variant 2, mF
NM_133484	Homo sapiens TRAF family member-associated NFKB activator (TANK), trar
NM_133486	Homo sapiens muscleblind-like 3 (Drosophila) (MBNL3), mRNA
NM_133487	Homo sapiens RAD51 homolog (RecA homolog, E. coli) (S. cerevisiae) (RAE
	(RAL

NM_133489	Homo sapiens solute carrier family 26, member 10 (SLC26A10), mRNA
NM_133490	Homo sapiens potassium voltage-gated channel, subfamily G, member 4 (KC
NM_133491	Homo sapiens spermidine/spermine N1-acetyltransferase 2 (SAT2), mRNA
NM_133492	Homo sapiens N-acylsphingosine amidohydrolase (alkaline ceramidase) 3 (A
NM_133493	Homo sapiens CD109 antigen (Gov platelet alloantigens) (CD109), mRNA
NM_133494	Homo sapiens NIMA (never in mitosis gene a)-related kinase 7 (NEK7), mRN
NM_133496	Homo sapiens solute carrier family 30 (zinc transporter), member 7 (SLC30A
NM_133497	Homo sapiens potassium channel, subfamily V, member 2 (KCNV2), mRNA
NM_133498	Homo sapiens sperm acrosome associated 4 (SPACA4), mRNA
NM_133499	Homo sapiens synapsin I (SYN1), transcript variant lb, mRNA
NM_133502	Homo sapiens zinc finger protein 274 (ZNF274), transcript variant ZNF274c,
NM_133503	Homo sapiens decorin (DCN), transcript variant A2, mRNA
NM_133504	Homo sapiens decorin (DCN), transcript variant B, mRNA
NM_133505	Homo sapiens decorin (DCN), transcript variant C, mRNA
NM_133506	Homo sapiens decorin (DCN), transcript variant D, mRNA
NM 133507	Homo sapiens decorin (DCN), transcript variant E, mRNA
NM_133509	Homo sapiens RAD51-like 1 (S. cerevisiae) (RAD51L1), transcript variant 3,
NM 133510	Homo sapiens RAD51-like 1 (S. cerevisiae) (RAD51L1), transcript variant 2,
NM_133625	Homo sapiens synapsin II (SYN2), transcript variant IIa, mRNA
NM 133627	Homo sapiens RAD51-like 3 (S. cerevisiae) (RAD51L3), transcript variant 2,
NM 133628	Homo sapiens RAD51-like 3 (S. cerevisiae) (RAD51L3), transcript variant 3,
NM 133629	Homo sapiens RAD51-like 3 (S. cerevisiae) (RAD51L3), transcript variant 4,
NM_133630	Homo sapiens RAD51-like 3 (S. cerevisiae) (RAD51L3), transcript variant 5,
NM 133631	Homo sapiens roundabout, axon guidance receptor, homolog 1 (Drosophila)
NM 133632	Homo sapiens synapsin III (SYN3), transcript variant IIIb, mRNA
NM_133633	Homo sapiens synapsin III (SYN3), transcript variant IIIc, mRNA
NM 133634	Homo sapiens protein O-fucosyltransferase 2 (POFUT2), transcript variant 2,
NM_133635	Homo sapiens protein O-fucosyltransferase 2 (POFUT2), transcript variant 3,
NM 133636	Homo sapiens DNA helicase HEL308 (HEL308), mRNA
NM_133637	Homo sapiens DEAQ box polypeptide 1 (RNA-dependent ATPase) (DQX1), I
NM 133638	Homo sapiens a disintegrin-like and metalloprotease (reprolysin type) with th
NM_133639	Homo sapiens ras homolog gene family, member V (RHOV), mRNA
NM_133640	Homo sapiens surfeit 5 (SURF5), transcript variant b, mRNA
NM_133642	Homo sapiens like-glycosyltransferase (LARGE), transcript variant 2, mRNA
NM_133644	Homo sapiens GTP binding protein 3 (mitochondrial) (GTPBP3), mRNA
NM_133645	Homo sapiens mitochondrial translation optimization 1 homolog (S. cerevisia
NM_133646	Homo sapiens sterile alpha motif and leucine zipper containing kinase AZK (.
NM 133650	Homo sapiens spectrin repeat containing, nuclear envelope 1 (SYNE1), trans
NM_134258	Homo sapiens transducin (beta)-like 1Y-linked (TBL1Y), transcript variant 2, I
NM_134259	Homo sapiens transducin (beta)-like 1Y-linked (TBL1Y), transcript variant 3, 1
NM_134260	Homo sapiens RAR-related orphan receptor A (RORA), transcript variant 2, r
NM_134261	Homo sapiens RAR-related orphan receptor A (RORA), transcript variant 1, r
NM_134262	Homo sapiens RAR-related orphan receptor A (RORA), transcript variant 4, r
NM_134263	Homo sapiens solute carrier family 26, member 6 (SLC26A6), transcript varie
NM 134264	Homo sapiens WD repeat and SOCS box-containing 1 (WSB1), transcript va
NM_134265	Homo sapiens WD repeat and SOCS box-containing 1 (WSB1), transcript va
NM_134266	Homo sapiens solute carrier family 26, member 7 (SLC26A7), transcript varie
NM 134268	Homo sapiens cytoglobin (CYGB), mRNA
NM_134269	Homo sapiens smoothelin (SMTN), transcript variant 2, mRNA
NM_134270	Homo sapiens smoothelin (SMTN), transcript variant 1, mRNA
NM_134323	Homo sapiens TAR (HIV) RNA binding protein 2 (TARBP2), transcript varian
NM 134324	Homo sapiens TAR (HIV) RNA binding protein 2 (TARBP2), transcript varian
NM 134325	Homo sapiens solute carrier family 26, member 9 (SLC26A9), transcript varia
NM_134421	Homo sapiens hippocalcin-like 1 (HPCAL1), transcript variant 2, mRNA
NM_134422	Homo sapiens RAD52 homolog (S. cerevisiae) (RAD52), transcript variant de
NM_134423	Homo sapiens RAD52 homolog (S. cerevisiae) (RAD52), transcript variant ge
NM_134424	Homo sapiens RAD52 homolog (S. cerevisiae) (RAD52), transcript variant be
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NM_134425	Homo sapiens solute carrier family 26 (sulfate transporter), member 1 (SLC2
NM_134426	Homo sapiens solute carrier family 26, member 6 (SLC26A6), transcript varia
NM_134427	Homo sapiens regulator of G-protein signalling 3 (RGS3), transcript variant 4
NM_134428	Homo sapiens regulatory factor X, 3 (influences HLA class II expression) (RF
NM_134431	Homo sapiens solute carrier organic anion transporter family, member 1A2 (
NM 134433	Homo sapiens regulatory factor X, 2 (influences HLA class II expression) (RF
NM 134434	Homo sapiens RAD54 homolog B (S. cerevisiae) (RAD54B), transcript variar
NM 134440	Homo sapiens regulatory factor X-associated ankyrin-containing protein (RF)
NM_134441	Homo sapiens relaxin 2 (H2) (RLN2), transcript variant 1, mRNA
NM 134442	Homo sapiens cAMP responsive element binding protein 1 (CREB1), transcr
NM 134444	Homo saplens NACHT, leucine rich repeat and PYD containing 4 (NALP4), n
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NM_134445	Homo sapiens CD99 antigen-like 2 (CD99L2), mRNA
NM_134446	Homo sapiens CD99 antigen-like 2 (CD99L2), mRNA
NM_134447	Homo sapiens chromosome 19 open reading frame 2 (C19orf2), transcript ve
NM_134470	Homo sapiens interleukin 1 receptor accessory protein (IL1RAP), transcript v
NM_138270	Homo sapiens alpha thalassemia/mental retardation syndrome X-linked (RAI
NM_138271	Homo sapiens alpha thalassemia/mental retardation syndrome X-linked (RAI
NM_138272	Homo sapiens chromosome 6 open reading frame 25 (C6orf25), transcript ve
NM_138273	Homo sapiens chromosome 6 open reading frame 25 (C6orf25), transcript ve
NM_138274	Homo sapiens chromosome 6 open reading frame 25 (C6orf25), transcript va
NM_138275	Homo sapiens chromosome 6 open reading frame 25 (C6orf25), transcript va
NM_138276	Homo sapiens chromosome 6 open reading frame 25 (C6orf25), transcript ve
NM_138277	Homo sapiens chromosome 6 open reading frame 25 (C6orf25), transcript va
NM_138278	Homo sapiens BCL2/adenovirus E1B 19kD interacting protein like (BNIPL), r
NM_138279	Homo sapiens BCL2/adenovirus E1B 19kD interacting protein like (BNIPL), r
NM_138280	Homo sapiens citrate lyase beta like (CLYBL), transcript variant 1, mRNA
NM_138281	Homo sapiens distal-less homeobox 4 (DLX4), transcript variant 1, mRNA
NM_138282	Homo sapiens ATPase, H+ transporting, lysosomal 13kDa, V1 subunit G isol
NM_138283	Homo sapiens cystatin-like 1 (CSTL1), mRNA
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NM_138328	Homo sapiens rhomboid, veinlet-like 4 (Drosophila) (RHBDL4), mRNA
NM_138329	Homo sapiens NACHT, leucine rich repeat and PYD containing 6 (NALP6), n
NM_138330	Homo sapiens TRAF6-inhibitory zinc finger protein (TIZ), mRNA
NM_138331	Homo sapiens ribonuclease, RNase A family, 8 (RNASE8), mRNA
NM_138333	Homo sapiens chromosome 9 open reading frame 42 (C9orf42), mRNA
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NM_138334	Homo sapiens hypothetical transmembrane protein SBBI54 (SBBI54), mRNA
NM_138335	Homo sapiens glucosamine-6-phosphate deaminase 2 (GNPDA2), mRNA
NM_138336	Homo sapiens helicase/primase complex protein (LOC150678), mRNA
NM_138337	Homo sapiens myeloid inhibitory C-type lectin-like receptor (MICL), transcript
NM 138338	Homo sapiens polymerase (RNA) III (DNA directed) polypeptide H (22.9kD) (
NM_138340	Homo sapiens abhydrolase domain containing 3 (ABHD3), mRNA
NM 138341	Homo sapiens hypothetical protein BC000282 (LOC89894), mRNA
NM_138342	Homo sapiens hypothetical protein BC008326 (LOC89944), mRNA
NM 138343	Homo saplens kinesin-like 8 (KNSL8), transcript variant 4, mRNA
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NM_138344	Homo sapiens chromosome 14 open reading frame 152 (C14orf152), mRNA
NM_138346	Homo sapiens hypothetical protein MGC33867 (MGC33867), mRNA
NM_138347	Homo sapiens zinc finger protein 551 (ZNF551), mRNA
NM_138348	Homo sapiens hypothetical protein BC007706 (LOC90268), mRNA
NM_138349	Homo sapiens hypothetical protein BC004507 (LOC90313), mRNA
NM_138350	Homo sapiens hypothetical protein MGC33488 (MGC33488), mRNA
NM 138352	Homo sapiens atherin (LOC90378), mRNA
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NM_138355	Homo sapiens secernin 2 (Ses2), mRNA
NM_138356	Homo sapiens hypothetical protein BC007586 (LOC90525), mRNA
NM_138357	Homo sapiens chromosome 10 open reading frame 42 (C10orf42), mRNA
NM_138358	Homo sapiens hypothetical protein BC011833 (LOC90580), mRNA
NM_138360	Homo sapiens hypothetical protein BC008134 (LOC90668), mRNA
NM_138361	Homo sapiens leucine rich repeat and sterile alpha motif containing 1 (LRSA
NM_138362	Homo sapiens hypothetical protein BC000919 (LOC90736), mRNA
NM 138363	Homo sapiens hypothetical protein BC009518 (LOC90799), mRNA
NM_138364	Homo sapiens hypothetical protein BC004337 (LOC90826), mRNA
NM_138368	Homo sapiens hypothetical protein BC004895 (LOC91056), mRNA
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NM_138369	Homo sapiens family with sequence similarity 44, member B (FAM44B), mRI
NM_138371	Homo sapiens hypothetical protein MGC16044 (MGC16044), mRNA
NM_138372	Homo sapiens hypothetical protein BC001610 (LOC91661), mRNA
NM_138373	Homo sapiens myeloid-associated differentiation marker (MYADM), mRNA
NM_138375	Homo sapiens Cdk5 and Abl enzyme substrate 1 (CABLES1), mRNA
NM_138376	Homo sapiens tetratricopeptide repeat domain 5 (TTC5), mRNA
NM_138379	Homo sapiens T-cell immunoglobulin and mucin domain containing 4 (TIMD ²
NM 138381	Homo sapiens hypothetical protein BC008322 (MGC15763), mRNA
NM_138383	Homo sapiens hypothetical protein BC002770 (LOC92154), mRNA
NM 138384	Homo sapiens shadow of prion protein (Sprn), mRNA
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NM_138385	Homo sapiens hypothetical protein BC009331 (LOC92305), mRNA
NM_138386	Homo sapiens hypothetical protein BC008207 (LOC92345), mRNA
NM_138387	Homo sapiens glucose 6 phosphatase, catalytic, 3 (G6PC3), mRNA
NM_138389	Homo sapiens hypothetical protein BC001096 (LOC92689), mRNA
NM_138390	Homo sapiens hypothetical protein BC008604 (LOC92691), mRNA
NM_138391	Homo sapiens chromosome 1 open reading frame 37 (C1orf37), mRNA
NM 138392	Homo sapiens hypothetical protein BC007653 (LOC92799), mRNA
NM 138393	Homo sapiens chromosome 19 open reading frame 32 (C19orf32), mRNA
NM_138394	Homo sapiens hypothetical protein BC008217 (LOC92906), mRNA
NM_138395	Homo sapiens mitochondrial methionyl-tRNA synthetase (MetRS), mRNA
NM_138396	Homo sapiens hypothetical protein BC009489 (LOC92979), mRNA
NM_138397	Homo sapiens hypothetical protein BC012317 (LOC93082), mRNA
NM_138399	Homo sapiens hypothetical protein BC007772 (LOC93109), mRNA
NM_138401	Homo sapiens hypothetical protein BC011840 (LOC93343), mRNA
NM_138402	Homo sapiens hypothetical protein BC004921 (LOC93349), mRNA
NM_138403	Homo sapiens myosin light chain 2, precursor lymphocyte-specific (MYLC2P
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NM_138408	Homo sapiens chromosome 6 open reading frame 51 (C6orf51), mRNA
NM_138409	Homo sapiens chromosome 6 open reading frame 117 (C6orf117), mRNA
NM_138410	Homo sapiens chemokine-like factor super family 7 (CKLFSF7), transcript va
NM_138412	Homo sapiens retinol dehydrogenase 13 (all-trans and 9-cis) (RDH13), mRN
NM_138413	Homo sapiens chromosome 10 open reading frame 65 (C10orf65), mRNA
NM_138414	Homo sapiens hypothetical protein BC011981 (LOC112869), mRNA
NM_138415	Homo sapiens hypothetical protein BC012187 (LOC112885), mRNA
NM_138416	Homo sapiens hypothetical protein BC011001 (LOC112937), mRNA
NM_138417	Homo sapiens hypothetical protein BC012173 (MGC20419), mRNA
NM_138418	Homo sapiens hypothetical protein MGC15416 (MGC15416), mRNA
NM_138419	Homo sapiens DUF729 domain containing 1 (DUFD1), mRNA
NM_138421	Homo sapiens hypothetical protein BC012010 (LOC113174), mRNA
NM_138422	Homo sapiens hypothetical protein BC011824 (LOC113179), mRNA
NM_138423	Homo sapiens H63 breast cancer expressed gene (H63), transcript variant 1
NM 138424	Homo sapiens kinesin family member 12 (KIF12), mRNA
NM 138425	Homo sapiens likely ortholog of mouse gene rich cluster, C10 gene (GRCC1:
NM 138428	Homo sapiens hypothetical protein BC011880 (LOC113444), mRNA
NM 138429	Homo sapiens claudin 15 (CLDN15), mRNA
NM_138430	Homo sapiens ADP-ribosylhydrolase like 1 (ADPRHL1), transcript variant 1,
NM 138431	Homo sapiens hypothetical protein BC011982 (LOC113655), mRNA
NM 138432	Homo sapiens serine dehydratase-like (SDSL), mRNA
NM 138433	Homo sapiens hypothetical protein BC009980 (MGC16635), mRNA
NM_138434	Homo sapiens chromosome 7 open reading frame 29 (C7orf29), mRNA
NM 138435	Homo sapiens hypothetical protein BC011204 (LOC113828), mRNA
NM 138436	Homo sapiens hypothetical protein BC013035 (LOC114926), mRNA
NM 138437	Homo sapiens GASP2 protein (GASP2), mRNA
NM 138439	Homo sapiens hypothetical protein BC014089 (LOC114984), mRNA
NM_138440	Homo sapiens hypothetical protein BC013767 (LOC114990), mRNA
NM 138441	Homo sapiens chromosome 6 open reading frame 150 (C6orf150), mRNA
NM_138442	Homo sapiens hypothetical protein BC013949 (LOC115098), mRNA
NM 138443	Homo sapiens coiled-coil domain containing 5 (spindle associated) (CCDC5)
NM_138444	Homo sapiens potassium channel tetramerisation domain containing 12 (KC
NM_138445	Homo sapiens G protein-coupled receptor 146 (GPR146), mRNA
NM_138446	Homo sapiens chromosome 7 open reading frame 30 (C7orf30), mRNA
NM 138447	Homo sapiens hypothetical protein BC014000 (LOC115509), mRNA
NM_138448	Homo sapiens acylphosphatase 2, muscle type (ACYP2), mRNA
NM_138450	Homo sapiens ADP-ribosylation factor-like 11 (ARL11), mRNA
NM 138451	Homo sapiens hypothetical protein BC013151 (LOC115811), mRNA
NM 138452	Homo sapiens dehydrogenase/reductase (SDR family) member 1 (DHRS1),
NM 138453	Homo sapiens RAB3C, member RAS oncogene family (RAB3C), mRNA
NM_138454	Homo sapiens thioredoxin-like 6 (TXNL6), mRNA
NM 138455	Homo sapiens collagen triple helix repeat containing 1 (CTHRC1), mRNA
NM_138456	Homo sapiens hypothetical protein BC012330 (MGC20410), mRNA
NM_138457	Homo sapiens forkhead box P4 (FOXP4), mRNA
NM_138458	Homo sapiens hypothetical protein BC014022 (LOC116143), mRNA
NM_138459	Homo sapiens chromosome 6 open reading frame 68 (C6orf68), mRNA
NM_138460	Homo sapiens chemokine-like factor super family 5 (CKLFSF5), transcript va
NM_138461	Homo sapiens hypothetical protein BC013113 (LOC116211), mRNA
NM_138462	Homo sapiens zinc finger, MYND domain containing 19 (ZMYND19), mRNA
NM_138463	Homo sapiens hypothetical protein BC014072 (LOC116238), mRNA
NM_138465	Homo sapiens GLI-Kruppel family member GLI4 (GLI4), mRNA
NM_138467	Homo sapiens hypothetical protein BC009514 (LOC127253), mRNA
NM 138468	Homo sapiens amyotrophic lateral sclerosis 2 (juvenile) chromosome region,
NM_138471	Homo sapiens hypothetical protein BC007540 (LOC144097), mRNA
NM_138473	Homo sapiens Sp1 transcription factor (SP1), mRNA
NM_138476	Homo sapiens hypothetical protein MGC5987 (MGC5987), mRNA
NM_138477	Homo sapiens congenital dyserythropoietic anemia, type I (CDAN1), mRNA
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NM_138479	Homo sapiens hypothetical protein BC007899 (LOC148898), mRNA
NM_138482	Homo sapiens hypothetical protein BC009264 (LOC151534), mRNA
NM_138484	Homo sapiens shugoshin-like 1 (S. pombe) (SGOL1), mRNA
NM_138487	Homo sapiens hypothetical protein BC007882 (LOC152217), mRNA
NM_138492	Homo sapiens hypothetical protein MGC21644 (MGC21644), transcript varia
NM_138494	Homo sapiens vav-1 interacting Kruppel-like protein (VIK), transcript variant
NM_138497	Homo sapiens hypothetical protein BC008050 (LOC158435), mRNA
NM_138499	Homo sapiens PWWP domain containing 2 (PWWP2), mRNA
NM_138501	Homo sapiens glycoprotein, synaptic 2 (GPSN2), mRNA
NM_138551	Homo sapiens thymic stromal lymphopoietin (TSLP), transcript variant 2, mR
NM_138553	Homo sapiens B-cell CLL/lymphoma 11A (zinc finger protein) (BCL11A), tran
NM_138554	Homo sapiens toll-like receptor 4 (TLR4), transcript variant 1, mRNA
NM_138555	Homo sapiens kinesin family member 23 (KIF23), transcript variant 1, mRNA
NM_138556	Homo sapiens toll-like receptor 4 (TLR4), transcript variant 2, mRNA
NM_138557	Homo sapiens toll-like receptor 4 (TLR4), transcript variant 4, mRNA
NM_138558	Homo sapiens protein phosphatase 1, regulatory (inhibitor) subunit 8 (PPP1F
NM_138559	Homo sapiens B-cell CLL/lymphoma 11A (zinc finger protein) (BCL11A), tran
NM_138563	Homo sapiens kallikrein 15 (KLK15), transcript variant 2, mRNA
NM_138564	Homo sapiens kallikrein 15 (KLK15), transcript variant 3, mRNA
NM_138565	Homo sapiens cortactin (CTTN), transcript variant 2, mRNA
NM_138566	Homo sapiens glutaminase 2 (liver, mitochondrial) (GLS2), nuclear gene enc
NM_138567	Homo sapiens synaptotagmin VIII (SYT8), mRNA
NM_138568	Homo sapiens protein 7 transactivated by hepatitis B virus X antigen (HBxAg
NM_138569	Homo sapiens chromosome 6 open reading frame 142 (C6orf142), mRNA
NM_138570	Homo sapiens hypothetical protein MGC15523 (MGC15523), mRNA
NM_138571	Homo sapiens histidine triad nucleotide binding protein 3 (HINT3), mRNA
NM_138572	Homo sapiens taube nuss homolog (mouse) (TBN), mRNA
NM_138573	Homo sapiens neuregulin 4 (LOC145957), mRNA
NM_138574	Homo sapiens PWWP domain containing 1 (PWWP1), mRNA
NM_138575	Homo sapiens hypothetical protein MGC5352 (MGC5352), mRNA
NM_138576	Homo sapiens B-cell CLL/lymphoma 11B (zinc finger protein) (BCL11B), tran
NM_138578	Homo sapiens BCL2-like 1 (BCL2L1), nuclear gene encoding mitochondrial
NM_138608	Homo sapiens metallophosphoesterase 1 (MPPE1), mRNA
NM_138609	Homo sapiens H2A histone family, member Y (H2AFY), transcript variant 1, r
NM_138610	Homo sapiens H2A histone family, member Y (H2AFY), transcript variant 3, r
NM_138612	Homo sapiens hyaluronan synthase 3 (HAS3), transcript variant 2, mRNA
NM_138614	Homo sapiens DEAH (Asp-Glu-Ala-His) box polypeptide 30 (DHX30), transcr
NM_138615	Homo sapiens DEAH (Asp-Glu-Ala-His) box polypeptide 30 (DHX30), transcr
NM_138616	Homo sapiens Rhesus blood group, CcEe antigens (RHCE), transcript variar
NM_138617	Homo sapiens Rhesus blood group, CcEe antigens (RHCE), transcript variar
NM_138618	Homo sapiens Rhesus blood group, CcEe antigens (RHCE), transcript variar
NM_138619	Homo sapiens golgi associated, gamma adaptin ear containing, ARF binding
NM_138620	Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 31 (DDX31), transc
NM_138621	Homo sapiens BCL2-like 11 (apoptosis facilitator) (BCL2L11), transcript varia
NM_138622	Homo sapiens BCL2-like 11 (apoptosis facilitator) (BCL2L11), transcript varia
NM_138623	Homo sapiens BCL2-like 11 (apoptosis facilitator) (BCL2L11), transcript varia
NM_138624	Homo sapiens BCL2-like 11 (apoptosis facilitator) (BCL2L11), transcript varia
NM_138625	Homo sapiens BCL2-like 11 (apoptosis facilitator) (BCL2L11), transcript variation sapiens BCL2-like 11 (apoptosis facilitator) (BCL2L11), transcript variation
NM_138626	
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NM_138634	· · · · · · · · · · · · · · · · · · ·
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	Homo sapiens toll-like receptor 8 (TLR8), transcript variant 2, mRNA
NM_138637 NM_138638	Homo sapiens toll-like receptor 8 (TLR8), transcript variant 2, mRNA Homo sapiens dudulin 2 (TSAP6), mRNA

NM_138639	Homo sapiens BCL2-like 12 (proline rich) (BCL2L12), transcript variant 1, mF
NM_138640	Homo saplens golgi associated, gamma adaptin ear containing, ARF binding
NM_138643	Homo sapiens calcium-binding tyrosine-(Y)-phosphorylation regulated (fibrou
NM_138644	Homo sapiens calcium-binding tyrosine-(Y)-phosphorylation regulated (fibrou
NM_138687	Homo sapiens phosphatidylinositol-4-phosphate 5-kinase, type II, beta (PIP5
NM_138688	Homo sapiens toll-like receptor 9 (TLR9), transcript variant B, mRNA
NM_138691	Homo sapiens transmembrane channel-like 1 (TMC1), mRNA
NM_138693	Homo sapiens Kruppel-like factor 14 (KLF14), mRNA
NM_138694	Homo sapiens polycystic kidney and hepatic disease 1 (autosomal recessive
NM 138697	Homo sapiens taste receptor, type 1, member 1 (TAS1R1), transcript variant
NM_138698	Homo sapiens prematurely terminated mRNA decay factor-like (LOC91431),
NM_138699	Homo sapiens hypothetical protein BC006130 (LOC93622), mRNA
NM_138700	Homo sapiens tripartite motif-containing 40 (TRIM40), mRNA
NM_138701	Homo sapiens chromosome 7 open reading frame 11 (C7orf11), mRNA
NM_138702	Homo sapiens melanoma antigen, family C, 3 (MAGEC3), transcript variant 1
NM_138703	Homo sapiens melanoma antigen, family E, 2 (MAGEE2), mRNA
NM_138704	Homo sapiens necdin-like 2 (NDNL2), mRNA
NM_138705	Homo sapiens calglandulin-like protein (CAGLP), mRNA
NM_138706	Homo sapiens beta-1,3-N-acetylglucosaminyltransferase protein (IMAGE:490
NM_138707	Homo sapiens B-cell CLL/lymphoma 7B (BCL7B), transcript variant 2, mRNA
NM_138709	Homo sapiens DAB2 interacting protein (DAB2IP), mRNA
NM_138711	Homo sapiens peroxisome proliferative activated receptor, gamma (PPARG)
NM_138712	Homo sapiens peroxisome proliferative activated receptor, gamma (PPARG)
NM_138713	Homo sapiens nuclear factor of activated T-cells 5, tonicity-responsive (NFA
NM_138714	Homo sapiens nuclear factor of activated T-cells 5, tonicity-responsive (NFA
NM_138715	Homo sapiens macrophage scavenger receptor 1 (MSR1), transcript variant
NM_138716	Homo sapiens macrophage scavenger receptor 1 (MSR1), transcript variant
NM_138717	Homo sapiens palmitoyl-protein thioesterase 2 (PPT2), transcript variant 2, n
NM_138718	Homo sapiens solute carrier family 26, member 8 (SLC26A8), transcript varia
NM_138720	Homo sapiens histone 1, H2bd (HIST1H2BD), transcript variant 2, mRNA
NM_138722	Homo sapiens BCL2-like 14 (apoptosis facilitator) (BCL2L14), transcript varia
NM_138723	Homo sapiens BCL2-like 14 (apoptosis facilitator) (BCL2L14), transcript varia
NM_138724	Homo sapiens BCL2-like 14 (apoptosis facilitator) (BCL2L14), transcript varia
NM_138726	Homo sapiens ATP-binding cassette, sub-family C (CFTR/MRP), member 13
NM_138727	Homo sapiens suppression of tumorigenicity 7 like (ST7L), transcript variant
NM_138728	Homo sapiens suppression of tumorigenicity 7 like (ST7L), transcript variant
NM_138729	Homo sapiens suppression of tumorigenicity 7 like (ST7L), transcript variant
NM_138730	Homo sapiens high mobility group nucleosomal binding domain 3 (HMGN3),
NM_138731	Homo sapiens mirror-image polydactyly 1 (MIPOL1), mRNA
NM_138732	Homo sapiens neurexin 2 (NRXN2), transcript variant alpha-2, mRNA
NM_138733	Homo sapiens phosphoglycerate kinase 2 (PGK2), mRNA
NM_138734	Homo sapiens neurexin 2 (NRXN2), transcript variant beta, mRNA
NM_138735	Homo sapiens neurexin 1 (NRXN1), transcript variant beta, mRNA
NM_138736	Homo sapiens guanine nucleotide binding protein (G protein), alpha activatin
NM_138737	Homo sapiens hephaestin (HEPH), transcript variant 1, mRNA
NM_138738	Homo sapiens SH2 domain containing phosphatase anchor protein 1 (SPAP
NM_138739	Homo sapiens SH2 domain containing phosphatase anchor protein 1 (SPAP
NM_138740	Homo sapiens NICE-3 protein (NICE-3), mRNA
NM_138761	Homo sapiens BCL2-associated X protein (BAX), transcript variant alpha, mf
NM_138762	Homo sapiens BCL2-associated X protein (BAX), transcript variant gamma, r
NM_138763	Homo sapiens BCL2-associated X protein (BAX), transcript variant delta, mR
NM_138764	Homo sapiens BCL2-associated X protein (BAX), transcript variant epsilon, n
NM_138765	Homo sapiens BCL2-associated X protein (BAX), transcript variant sigma, m
NM_138766	Homo sapiens peptidylglycine alpha-amidating monooxygenase (PAM), trans
NM_138768 NM_138769	Homo sapiens myeloma overexpressed gene (in a subset of t(11;14) positive Homo sapiens ras homolog gene family, member T2 (RHOT2), mRNA
NM 138709	Homo sapiens ras nomolog gene lamily, member 12 (RHO12), mRNA Homo sapiens hypothetical protein BC016861 (LOC90557), mRNA
14M_100770	Tionio dapieno hypothotical protein boo 1000 1 (E0000001), illi (IA)

NM_138771	Homo sapiens alpha-1,3(6)-mannosylglycoprotein beta-1,6-N-acetyl-glucosa
NM_138773	Homo sapiens hypothetical protein BC017169 (LOC91137), mRNA
NM_138774	Homo sapiens chromosome 19 open reading frame 22 (C19orf22), mRNA
NM_138775	Homo sapiens hypothetical protein BC015183 (LOC91801), mRNA
NM_138777	Homo sapiens mitochondrial ribosome recycling factor (MRRF), transcript va
NM_138778	Homo sapiens chromosome 9 open reading frame 112 (C9orf112), mRNA
NM_138779	Homo sapiens hypothetical protein BC015148 (LOC93081), mRNA
NM_138780	Homo sapiens synaptotagmin-like 5 (SYTL5), mRNA
NM_138781	Homo sapiens similar to envelope protein (LOC113386), mRNA
NM_138783	Homo sapiens zinc finger protein Zip67 (ZIP67), mRNA
NM_138784	Homo sapiens hypothetical protein BC014341 (LOC116123), mRNA
NM_138785	Homo sapiens chromosome 6 open reading frame 72 (C6orf72), mRNA
NM_138786	Homo sapiens hypothetical protein BC014339 (LOC116441), mRNA
NM_138787	Homo sapiens hypothetical protein BC009561 (LOC119710), mRNA
NM_138788	Homo sapiens hypothetical protein BC016153 (LOC120224), mRNA
NM_138789	Homo sapiens hypothetical protein BC019238 (LOC120379), mRNA
NM_138790	Homo sapiens hypothetical protein BC015003 (LOC122618), mRNA
NM_138791	Homo sapiens chromosome 14 open reading frame 148 (C14orf148), mRNA
NM_138792	Homo sapiens senescence downregulated leo1-like (LOC123169), mRNA
NM_138793	Homo sapiens ectonucleoside triphosphate diphosphohydrolase 8 (ENTPD8)
NM_138794	Homo sapiens lysophospholipase-like 1 (LYPLAL1), mRNA
NM_138795	Homo sapiens ADP-ribosylation factor-like 10B (ARL10B), mRNA
NM_138796	Homo sapiens hypothetical protein BC014608 (LOC128153), mRNA
NM_138797	Homo sapiens hypothetical protein BC014641 (LOC129138), mRNA
NM_138798	Homo sapiens hypothetical protein BC018453 (LOC129531), mRNA
NM_138799	Homo sapiens O-acyltransferase (membrane bound) domain containing 2 (O
NM_138800	Homo sapiens tripartite motif-containing 43 (TRIM43), mRNA
NM_138801	Homo sapiens galactose mutarotase (aldose 1-epimerase) (GALM), mRNA
NM_138802	Homo sapiens hypothetical protein BC018415 (LOC130617), mRNA Homo sapiens hypothetical protein BC015395 (LOC130940), mRNA
NM_138803	Homo sapiens hypothetical protein BC013393 (LOC130940), mRNA Homo sapiens hypothetical protein BC014602 (LOC130951), mRNA
NM_138804	Homo sapiens family with sequence similarity 3, member D (FAM3D), mRNA
NM_138805 NM 138806	Homo sapiens MOX2 receptor (MOX2R), transcript variant 1, mRNA
NM 138807	Homo sapiens hypothetical protein BC015088 (MGC16471), mRNA
NM 138808	Homo sapiens hypothetical protein BC015210 (LOC132200), mRNA
NM 138809	Homo sapiens hypothetical protein BC001573 (LOC134147), mRNA
NM 138810	Homo sapiens T-cell activation GTPase activating protein (TAGAP), transcrip
NM_138811	Homo sapiens chromosome 7 open reading frame 31 (C7orf31), mRNA
NM 138812	Homo sapiens hypothetical protein BC019250 (LOC143241), mRNA
NM_138813	Homo sapiens ATPase, Class I, type 8B, member 3 (ATP8B3), mRNA
NM 138814	Homo sapiens GS2 like (LOC150379), mRNA
NM_138815	Homo sapiens hypothetical protein BC018070 (LOC151871), mRNA
NM_138817	Homo sapiens solute carrier family 7, (cationic amino acid transporter, y+ sys
NM_138818	Homo sapiens chromosome 9 open reading frame 65 (C9orf65), mRNA
NM_138819	Homo sapiens hypothetical protein BC017868 (LOC159091), mRNA
NM_138820	Homo sapiens hypothetical protein MGC2198 (MGC2198), mRNA
NM_138821	Homo sapiens peptidylglycine alpha-amidating monooxygenase (PAM), trans
NM_138822	Homo sapiens peptidylglycine alpha-amidating monooxygenase (PAM), trans
NM_138923	Homo sapiens TAF1 RNA polymerase II, TATA box binding protein (TBP)-as
NM_138924	Homo sapiens guanidinoacetate N-methyltransferase (GAMT), transcript vari
NM_138925	Homo sapiens SON DNA binding protein (SON), transcript variant a, mRNA
NM_138926	Homo sapiens SON DNA binding protein (SON), transcript variant c, mRNA
NM_138927	Homo sapiens SON DNA binding protein (SON), transcript variant f, mRNA
NM_138928	Homo sapiens molybdenum cofactor synthesis 1 (MOCS1), transcript variant
NM_138929	Homo sapiens diablo homolog (Drosophila) (DIABLO), nuclear gene encodin
NM_138930	Homo sapiens diablo homolog (Drosophila) (DIABLO), nuclear gene encodin
NM_138931	Homo sapiens B-cell CLL/lymphoma 6 (zinc finger protein 51) (BCL6), transc

NM_138932	Homo sapiens apobec-1 complementation factor (ACF), transcript variant 2,
NM_138933	Homo sapiens apobec-1 complementation factor (ACF), transcript variant 3,
NM_138934	Homo sapiens palmitoyl-protein thioesterase 2 (PPT2), transcript variant 3, n
NM_138937	Homo sapiens pancreatitis-associated protein (PAP), transcript variant 3, mF
NM_138938	Homo sapiens pancreatitis-associated protein (PAP), transcript variant 2, mF
NM_138939	Homo sapiens MOX2 receptor (MOX2R), transcript variant 2, mRNA
NM_138940	Homo sapiens MOX2 receptor (MOX2R), transcript variant 3, mRNA
NM_138957	Homo sapiens mitogen-activated protein kinase 1 (MAPK1), transcript varian
NM_138958	Homo sapiens autocrine motility factor receptor (AMFR), transcript variant 2,
NM_138959	Homo sapiens vang-like 1 (van gogh, Drosophila) (VANGL1), mRNA
NM_138960	Homo sapiens TGFB-induced factor 2-like, X-linked (TGIF2LX), mRNA
NM_138961	Homo sapiens endothelial cell adhesion molecule (ESAM), mRNA
NM_138962	Homo sapiens musashi homolog 2 (Drosophila) (MSI2), transcript variant 1, I
NM_138963	Homo sapiens ribosomal protein S4, Y-linked 2 (RPS4Y2), mRNA
NM 138964	Homo sapiens G protein-coupled receptor 73 (GPR73), mRNA
NM_138966	Homo sapiens neuropilin (NRP) and tolloid (TLL)-like 1 (NETO1), transcript v
NM_138967	Homo sapiens secretory carrier membrane protein 5 (SCAMP5), mRNA
NM_138969	Homo sapiens retinal short chain dehydrogenase reductase (RDH-E2), mRN
NM 138970	Homo sapiens neurexin 3 (NRXN3), transcript variant beta, mRNA
NM_138971	Homo sapiens beta-site APP-cleaving enzyme 1 (BACE1), transcript variant
NM 138972	Homo sapiens beta-site APP-cleaving enzyme 1 (BACE1), transcript variant
NM_138973	Homo sapiens beta-site APP-cleaving enzyme 1 (BACE1), transcript variant
NM 138980	Homo sapiens mitogen-activated protein kinase 10 (MAPK10), transcript vari
NM_138981	Homo sapiens mitogen-activated protein kinase 10 (MAPK10), transcript vari
NM 138982	Homo sapiens mitogen-activated protein kinase 10 (MAPK10), transcript vari
NM_138983	Homo sapiens oligodendrocyte transcription factor 1 (OLIG1), mRNA
NM 138991	
NM 138992	Homo sapiens beta-site APP-cleaving enzyme 2 (BACE2), transcript variant
NM 138993	Homo sapiens beta-site APP-cleaving enzyme 2 (BACE2), transcript variant
NM 138994	Homo sapiens mitogen-activated protein kinase 11 (MAPK11), transcript vari
_	Homo sapiens contactin associated protein-like 4 (CNTNAP4), transcript vari
NM_138995	Homo sapiens myosin IIIB (MYO3B), mRNA
NM_138996	Homo sapiens contactin associated protein-like 5 (CNTNAP5), transcript vari
NM_138998	Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 39 (DDX39), transc
NM_138999	Homo sapiens neuropilin (NRP) and tolloid (TLL)-like 1 (NETO1), transcript v
NM_139002 NM 139003	Homo sapiens hemochromatosis (HFE), transcript variant 2, mRNA
_	Homo sapiens hemochromatosis (HFE), transcript variant 3, mRNA
NM_139004	Homo sapiens hemochromatosis (HFE), transcript variant 4, mRNA
NM_139005	Homo sapiens hemochromatosis (HFE), transcript variant 5, mRNA
NM_139006	Homo sapiens hemochromatosis (HFE), transcript variant 6, mRNA
NM_139007	Homo sapiens hemochromatosis (HFE), transcript variant 7, mRNA
NM_139008	Homo sapiens hemochromatosis (HFE), transcript variant 8, mRNA
NM_139009	Homo sapiens hemochromatosis (HFE), transcript variant 9, mRNA
NM_139010	Homo sapiens hemochromatosis (HFE), transcript variant 10, mRNA
NM_139011	Homo sapiens hemochromatosis (HFE), transcript variant 11, mRNA
NM_139012	Homo sapiens mitogen-activated protein kinase 14 (MAPK14), transcript vari
NM_139013	Homo sapiens mitogen-activated protein kinase 14 (MAPK14), transcript vari
NM_139014	Homo sapiens mitogen-activated protein kinase 14 (MAPK14), transcript vari
NM_139015	Homo sapiens signal peptide peptidase 3 (SPPL3), mRNA
NM_139016	Homo sapiens hypothetical gene LOC128439 (LOC128439), mRNA
NM_139017	Homo sapiens interleukin 31 receptor A (IL31RA), mRNA
NM_139018	Homo sapiens NK inhibitory receptor precursor (NKIR), mRNA
NM_139021	Homo sapiens extracellular signal-regulated kinase 8 (ERK8), mRNA
NM_139022	Homo sapiens pan-hematopoietic expression (PHEMX), transcript variant 1,
NM_139024	Homo sapiens pan-hematopoietic expression (PHEMX), transcript variant 3,
NM_139025	Homo saplens a disintegrin-like and metalloprotease (reprolysin type) with th
NM_139026	Homo sapiens a disintegrin-like and metalloprotease (reprolysin type) with th
NM_139027	Homo sapiens a disintegrin-like and metalloprotease (reprolysin type) with th

NM_139028	Homo sapiens a disintegrin-like and metalloprotease (reprolysin type) with th
NM_139030	Homo sapiens CD151 antigen (CD151), transcript variant 2, mRNA
NM_139032	Homo sapiens mitogen-activated protein kinase 7 (MAPK7), transcript varian
NM_139033	Homo sapiens mitogen-activated protein kinase 7 (MAPK7), transcript varian
NM_139034	Homo sapiens mitogen-activated protein kinase 7 (MAPK7), transcript varian
NM_139035	Homo saplens SWI/SNF related, matrix associated, actin dependent regulate
NM_139045	Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator
NM_139046	Homo sapiens mitogen-activated protein kinase 8 (MAPK8), transcript varian
NM_139047	Homo sapiens mitogen-activated protein kinase 8 (MAPK8), transcript varian
NM 139048	Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator
NM_139049	Homo sapiens mitogen-activated protein kinase 8 (MAPK8), transcript varian
NM_139053	Homo sapiens EPS8-like 3 (EPS8L3), transcript variant 1, mRNA
NM 139054	Homo sapiens a disintegrin-like and metalloprotease (reprolysin type) with th
NM_139055	Homo sapiens a disintegrin-like and metalloprotease (reprolysin type) with th
NM 139056	Homo sapiens a disintegrin-like and metalloprotease (reprolysin type) with th
NM_139057	Homo sapiens a disintegrin-like and metalloprotease (reprolysin type) with th
NM 139058	Homo sapiens aristaless related homeobox (ARX), mRNA
NM_139062	Homo sapiens casein kinase 1, delta (CSNK1D), transcript variant 2, mRNA
NM 139067	Homo sapiens SWI/SNF related, matrix associated, actin dependent regulate
NM_139068	Homo sapiens mitogen-activated protein kinase 9 (MAPK9), transcript varian
NM 139069	Homo sapiens mitogen-activated protein kinase 9 (MAPK9), transcript varian
NM_139070	Home senions mitoger-activated protein kinase 9 (MAPK9), transcript varian
NM_139071	Homo sapiens mitogen-activated protein kinase 9 (MAPK9), transcript varian
NM 139072	Homo sapiens SWI/SNF related, matrix associated, actin dependent regulate
_	Homo sapiens delta-notch-like EGF repeat-containing transmembrane (DNE
NM_139073	Homo sapiens spermatogenesis associated 3 (SPATA3), mRNA
NM_139074	Homo sapiens defensin, beta 127 (DEFB127), mRNA
NM_139075	Homo sapiens two pore segment channel 2 (TPCN2), mRNA
NM_139076	Homo sapiens hypothetical protein FLJ13614 (FLJ13614), mRNA
NM_139078	Homo sapiens mitogen-activated protein kinase-activated protein kinase 5 (N
NM_139118	Homo sapiens YY1 associated protein (YAP), transcript variant 2, mRNA
NM_139119	Homo sapiens YY1 associated protein (YAP), transcript variant 3, mRNA
NM_139120	Homo sapiens YY1 associated protein (YAP), transcript variant 4, mRNA
NM_139121	Homo sapiens YY1 associated protein (YAP), transcript variant 5, mRNA
NM_139122	Homo sapiens TAF6 RNA polymerase II, TATA box binding protein (TBP)-as
NM_139123	Homo sapiens TAF6 RNA polymerase II, TATA box binding protein (TBP)-as
NM_139124	Homo sapiens mitogen-activated protein kinase 8 interacting protein 2 (MAPI
NM_139125	Homo sapiens mannan-binding lectin serine protease 1 (C4/C2 activating co
NM_139126	Homo sapiens peptidylprolyl isomerase (cyclophilin)-like 4 (PPIL4), mRNA
NM_139131	Homo sapiens nucleoporin 98kDa (NUP98), transcript variant 2, mRNA
NM_139132	Homo sapiens nucleoporin 98kDa (NUP98), transcript variant 4, mRNA
NM_139135	Homo sapiens AT rich interactive domain 1A (SWI- like) (ARID1A), transcript
NM_139136	Homo sapiens potassium voltage-gated channel, Shaw-related subfamily, mo
NM_139137	Homo sapiens potassium voltage-gated channel, Shaw-related subfamily, mo
NM_139155	Homo sapiens a disintegrin-like and metalloprotease (reprolysin type) with th
NM_139156	Homo sapiens adenosine monophosphate deaminase 2 (isoform L) (AMPD2
NM_139157	Homo sapiens suppression of tumorigenicity 5 (ST5), transcript variant 2, mF
NM_139158	Homo sapiens amyotrophic lateral sclerosis 2 (juvenile) chromosome region,
NM_139159	Homo sapiens dipeptidylpeptidase 9 (DPP9), mRNA
NM_139160	Homo sapiens novel 58.3 KDA protein (LOC91614), mRNA
NM_139161	Homo sapiens crumbs homolog 3 (Drosophila) (CRB3), transcript variant 2, r
NM_139162	Homo sapiens Smith-Magenis syndrome chromosome region, candidate 7 (5
NM_139163	Homo sapiens amyotrophic lateral sclerosis 2 (juvenile) chromosome region,
NM_139164	Homo sapiens START domain containing 4, sterol regulated (STARD4), mR1
NM_139165	Homo sapiens retinoic acid early transcript 1E (RAET1E), mRNA
NM_139166	Homo sapiens striated muscle activator of Rho-dependent signaling (STARS
NM_139167	Homo sapiens sarcoglycan zeta (SGCZ), mRNA
NM_139168	Homo sapiens splicing factor, arginine/serine-rich 12 (SFRS12), mRNA
_	

NM_139169	Homo sapiens TruB pseudouridine (psi) synthase homolog 1 (E. coli) (TRUB
NM 139170	Homo sapiens hypothetical protein AF447587 (LOC146562), mRNA
NM_139171	Homo sapiens START domain containing 6 (STARD6), mRNA
NM 139172	Homo sapiens MDAC1 (MDAC1), mRNA
NM_139173	Homo sapiens CG10806-like (LOC150159), mRNA
NM_139174	Homo sapiens testis nuclear RNA-binding protein-like (LOC161931), mRNA
NM_139175	Homo sapiens ring finger protein 133 (RNF133), mRNA
NM_139176	Homo sapiens NACHT, leucine rich repeat and PYD containing 7 (NALP7), ti
NM_139177	Homo sapiens solute carrier family 39 (metal ion transporter), member 11 (S
NM 139178	Homo sapiens prostate cancer antigen-1 (DEPC-1), mRNA
NM 139179	Homo sapiens KCCR13L (LOC221955), mRNA
NM_139181	Homo sapiens centaurin, delta 2 (CENTD2), transcript variant 1, mRNA
NM 139182	Homo sapiens centaurin, delta 1 (CENTD1), transcript variant 2, mRNA
NM_139199	Homo sapiens bromodomain containing 8 (BRD8), transcript variant 2, mRN/
NM 139201	Homo sapiens G protein-coupled receptor kinase interactor 2 (GIT2), transcr
NM_139202	Homo sapiens megalencephalic leukoencephalopathy with subcortical cysts
NM_139204	Homo sapiens EPS8-like 1 (EPS8L1), transcript variant 3, mRNA
NM_139205	Homo sapiens histone deacetylase 5 (HDAC5), transcript variant 2, mRNA
NM_139207	Homo sapiens nucleosome assembly protein 1-like 1 (NAP1L1), transcript νε
NM_139208	Homo sapiens mannan-binding lectin serine protease 2 (MASP2), transcript
NM_139209	Homo sapiens G protein-coupled receptor kinase 7 (GRK7), mRNA
NM_139211	Homo sapiens homeodomain-only protein (HOP), transcript variant 2, mRNA
NM_139212	Homo sapiens homeodomain-only protein (HOP), transcript variant 3, mRNA
NM_139214	Homo sapiens TGFB-induced factor 2-like, Y-linked (TGIF2LY), mRNA
NM_139215	Homo sapiens TAF15 RNA polymerase II, TATA box binding protein (TBP)-a
NM_139235	Homo sapiens nucleolar protein family 6 (RNA-associated) (NOL6), transcrip
NM_139238	Homo sapiens ADAMTS-like 1 (ADAMTSL1), transcript variant 1, mRNA
NM_139239	Homo sapiens T-cell activation NFKB-like protein (TA-NFKBH), mRNA
NM_139240	Homo sapiens LOC92346 (LOC92346), mRNA
NM_139241	Homo sapiens FGD1 family, member 4 (FGD4), mRNA
NM_139242	Homo sapiens methionyl-tRNA formyltransferase, mitochondrial (MtFMT), ml
NM_139243	Homo sapiens testis nuclear RNA-binding protein (Tenr), mRNA
NM_139244	Homo sapiens syntaxin binding protein 5 (tomosyn) (STXBP5), mRNA
NM_139245	Homo sapiens protein phosphatase 1 (formerly 2C)-like (PPM1L), mRNA
NM_139246	Homo sapiens chromosome 9 open reading frame 97 (C9orf97), mRNA
NM_139247	Homo sapiens adenylate cyclase 4 (ADCY4), mRNA
NM_139248	Homo sapiens lipase, member H (LIPH), mRNA
NM_139249	Homo sapiens membrane-spanning 4-domains, subfamily A, member 6E (M
NM_139250	Homo sapiens cancer/testis antigen 1A (CTAG1A), mRNA
NM_139264	Homo sapiens ADAMTS-like 1 (ADAMTSL1), transcript variant 3, mRNA
NM_139265	the contraction of OdkDo (CTA
NM_139266	Homo sapiens signal transducer and activator of transcription 1, 91kDa (STA
NM_139267	
NM_139273	
NM_139274	Homo sapiens acetyl-Coenzyme A synthetase 2 (ADP forming) (ACAS2), tra
NM_139275	
NM_139276	
NM_139277	
NM_139278	Homo sapiens leucine-rich repeat LGI family, member 3 (LGI3), mRNA
NM_139279	
NM_139280	
NM_139281	Homo sapiens WD repeat domain 36 (WDR36), mRNA
NM_139282	- " " " O O O O O O O O O O O O O O O O
NM_139283	
NM_139284	
NM_139285	
NM_139286	nomo sapiens cen división cycle 20 (ODO20), mixión

NM_139289	Homo sapiens A kinase (PRKA) anchor protein 4 (AKAP4), transcript variant
NM 139290	Homo sapiens angiopoietin 1 (ANGPT1), transcript variant 2, mRNA
NM_139312	Homo sapiens YME1-like 1 (S. cerevisiae) (YME1L1), nuclear gene encoding
NM_139313	Homo sapiens YME1-like 1 (S. cerevisiae) (YME1L1), nuclear gene encoding
NM_139314	Homo sapiens angiopoietin-like 4 (ANGPTL4), transcript variant 1, mRNA
NM 139315	Homo sapiens TAF6 RNA polymerase II, TATA box binding protein (TBP)-as
NM_139316	Homo sapiens amphiphysin (Stiff-Man syndrome with breast cancer 128kDa
NM_139317	Homo sapiens baculoviral IAP repeat-containing 7 (livin) (BIRC7), transcript
NM_139318	Homo sapiens potassium voltage-gated channel, subfamily H (eag-related), I
NM 139319	Homo sapiens solute carrier family 17 (sodium-dependent inorganic phospha
NM_139320	Homo sapiens CHRNA7 (cholinergic receptor, nicotinic, alpha polypeptide 7,
NM 139321	Homo sapiens attractin (ATRN), transcript variant 1, mRNA
NM_139322	Homo sapiens attractin (ATRN), transcript variant 2, mRNA
NM_139323	Homo sapiens tyrosine 3-monooxygenase/tryptophan 5-monooxygenase acti
NM_139343	Homo sapiens bridging integrator 1 (BIN1), transcript variant 1, mRNA
NM_139344	Homo sapiens bridging integrator 1 (BIN1), transcript variant 2, mRNA
NM_139345	Homo sapiens bridging integrator 1 (BIN1), transcript variant 3, mRNA
NM_139346	Homo sapiens bridging integrator 1 (BIN1), transcript variant 4, mRNA
NM_139347	Homo sapiens bridging integrator 1 (BIN1), transcript variant 5, mRNA
NM_139348	Homo sapiens bridging integrator 1 (BIN1), transcript variant 6, mRNA
NM_139349	Homo sapiens bridging integrator 1 (BIN1), transcript variant 7, mRNA
NM_139350	Homo sapiens bridging integrator 1 (BIN1), transcript variant 9, mRNA
NM_139351	Homo sapiens bridging integrator 1 (BIN1), transcript variant 10, mRNA
NM_139352	Homo sapiens TATA box binding protein (TBP)-associated factor, RNA polyn
NM_139353	Homo sapiens TATA box binding protein (TBP)-associated factor, RNA polyn
NM_139354	Homo sapiens megakaryocyte-associated tyrosine kinase (MATK), transcript
NM_139355	Homo sapiens megakaryocyte-associated tyrosine kinase (MATK), transcript
NM_144488	Homo sapiens regulator of G-protein signalling 3 (RGS3), transcript variant 6
NM_144489	Homo saplens regulator of G-protein signalling 3 (RGS3), transcript variant 5
NM_144490	Homo sapiens A kinase (PRKA) anchor protein 11 (AKAP11), transcript varia
NM_144492	Homo sapiens claudin 14 (CLDN14), transcript variant 1, mRNA
NM_144494	Homo sapiens polyglutamine binding protein 1 (PQBP1), mRNA
NM_144495	Homo sapiens polyglutamine binding protein 1 (PQBP1), mRNA
NM_144497	Homo sapiens A kinase (PRKA) anchor protein (gravin) 12 (AKAP12), transc
NM_144498	Homo sapiens oxysterol binding protein-like 2 (OSBPL2), transcript variant 2
NM_144499	Homo sapiens guanine nucleotide binding protein (G protein), alpha transduc
NM_144501	Homo sapiens F11 receptor (F11R), transcript variant 2, mRNA
NM_144502	Homo sapiens F11 receptor (F11R), transcript variant 3, mRNA
NM_144503	Homo sapiens F11 receptor (F11R), transcript variant 4, mRNA
NM_144504	Homo sapiens F11 receptor (F11R), transcript variant 5, mRNA
NM_144505	Homo sapiens kallikrein 8 (neuropsin/ovasin) (KLK8), transcript variant 2, mF
NM_144506	Homo sapiens kallikrein 8 (neuropsin/ovasin) (KLK8), transcript variant 3, mF
NM_144507	Homo sapiens kallikrein 8 (neuropsin/ovasin) (KLK8), transcript variant 4, mF
NM_144508	Homo sapiens AF15q14 protein (AF15Q14), mRNA
NM_144563	Homo sapiens ribose 5-phosphate isomerase A (ribose 5-phosphate epimera
NM_144564	Homo sapiens solute carrier family 39 (zinc transporter), member 3 (SLC39A
NM_144565	Homo sapiens homolog of Drosophila Numb-interacting protein (NIP), mRNA
NM_144567	Homo sapiens similar to RIKEN cDNA 2610307I21 (LOC90806), mRNA
NM_144568	Homo sapiens chromosome 14 open reading frame 9 (C14orf9), mRNA Homo sapiens hypothetical protein FLJ25348 (FLJ25348), mRNA
NM_144569	Homo sapiens chromosome 16 open reading frame 34 (C16orf34), mRNA
NM_144570	Homo sapiens CCR4-NOT transcription complex, subunit 6-like (CNOT6L), n
NM_144571	Homo sapiens certa-Not transcription complex, subunit onke (chotol), in Homo sapiens nexilin (F actin binding protein) (NEXN), mRNA
NM_144573	
NM_144574	
NM_144575	
NM_144576	
NM_144577	Tiotho daplone hypothetical protein. Loozoto (i Loozoto), ilinaat

NM_144578	Ho mo sapiens chromosome 14 open reading frame 32 (C14orf32), mRNA
NM_144579	Homo sapiens sideroflexin 5 (SFXN5), mRNA
NM_144580	Homo sapiens kidney predominant protein NCU-G1 (MGC31963), mRNA
NM_144581	Homo sapiens chromosome 14 open reading frame 149 (C14orf149), mRNA
NM 144582	Homo sapiens testis expressed sequence 261 (TEX261), mRNA
NM_144583	Homo sapiens ATPase, H+ transporting, lysosomal 42kDa, V1 subunit C isof
NM_144584	Homo sapiens hypothetical protein FLJ30525 (FLJ30525), mRNA
NM_144585	Homo sapiens solute carrier family 22 (organic anion/cation transporter), mei
NM 144586	Homo sapiens hypothetical protein MGC29643 (MGC29643), mRNA
NM_144587	Homo sapiens chromosome 10 open reading frame 87 (C10orf87), mRNA
NM 144588	Homo sapiens zinc finger, FYVE domain containing 27 (ZFYVE27), transcrip
NM_144589	Homo sapiens catechol-O-methyltransferase domain containing 1 (COMTD1
NM 144590	Homo sapiens ankyrin repeat domain 22 (ANKRD22), mRNA
NM 144591	Homo sapiens chromosome 10 open reading frame 32 (C10orf32), mRNA
NM 144593	
_	Homo sapiens Ras homolog enriched in brain like 1 (RHEBL1), mRNA
NM_144594	Homo sapiens hypothetical protein FLJ32942 (FLJ32942), mRNA
NM_144595	Homo sapiens hypothetical protein FLJ30046 (FLJ30046), mRNA
NM_144596	Homo sapiens tetratricopeptide repeat domain 8 (TTC8), transcript variant 3,
NM_144597	Homo sapiens hypothetical protein MGC29937 (MGC29937), mRNA
NM_144598	Homo sapiens leucine rich repeat containing 28 (LRRC28), mRNA
NM_144599	Homo sapiens non-imprinted in Prader-Willi/Angelman syndrome 1 (NIPA1),
NM_144600	Homo sapiens hypothetical protein FLJ31153 (FLJ31153), mRNA
NM_144601	Homo sapiens chemokine-like factor super family 3 (CKLFSF3), transcript va
NM_144602	Ho mo sapiens hypothetical protein MGC32905 (MGC33367), mRNA
NM_144603	Homo sapiens NADPH oxidase organizer 1 (NOXO1), transcript variant a, ml
NM_144604	Homo sapiens hypothetical protein BC001584 (LOC124245), mRNA
NM_144605	Homo sapiens hypothetical protein FLJ25410 (FLJ25410), mRNA
NM_144606	Homo sapiens folliculin (BHD), transcript variant 2, mRNA
NM_144607	Homo sapiens hypothetical protein FLJ32499 (FLJ32499), mRNA
NM_144608	Homo sapiens hypothetical protein MGC39389 (FLJ32384), mRNA
NM_144609	Homo sapiens hypothetical protein FLJ31795 (FLJ31795), mRNA
NM_144610	Homo sapiens hypothetical protein FLJ25006 (FLJ25006), mRNA
NM_144611	Homo sapiens hypothetical protein MGC32124 (MGC32124), mRNA
NM_144612	Homo sapiens lipoxygenase homology domains 1 (LOXHD1), mRNA
NM_144613	Homo sapiens cytochrome c oxidase subunit VIb, testes-specific (COXVIB2)
NM_144614	Homo sapiens methyl-CpG binding domain protein 3-like 2 (MBD3L2), mRN/
NM_144615	Homo sapiens hypothetical protein MGC23244 (MGC23244), mRNA
NM_144616	Homo sapiens homolog of mouse skeletal muscle sarcoplasmic reticulum pro
NM_144617	Homo sapiens heat shock protein, alpha-crystallin-related, B6 (HSPB6), mRt
NM_144618	Homo sapiens hypothetical protein MGC29891 (MGC29891), mRNA
NM_144620	Homo sapiens hypothetical protein MGC14816 (MGC14816), mRNA
NM_144621	Homo sapiens zinc finger and BTB domain containing 8 (ZBTB8), mRNA
NM_144622	Homo sapiens hypothetical protein FLJ32934 (FLJ32934), mRNA
NM_144623	Homo sapiens hypothetical protein FLJ32784 (FLJ32784), mRNA
NM_144624	Homo sapiens kinase interacting with leukemia-associated gene (stathmin) (
NM_144625	Homo sapiens hypothetical protein FLJ32978 (FLJ32978), mRNA
NM_144626	Homo sapiens hypothetical protein MGC17299 (MGC17299), mRNA
NM_144627	Homo sapiens SSTK-interacting protein (SSTK-IP), mRNA
NM_144628	Homo sapiens chromosome 20 open reading frame 140 (C20orf140), mRNA
NM_144629	Homo sapiens chromosome 2 open reading frame 11 (C2orf11), mRNA
NM_144631	Homo sapiens zinc finger protein 513 (ZNF513), mRNA
NM_144632	Homo sapiens hypothetical protein FLJ30294 (FLJ30294), mRNA
NM_144633	Homo sapiens potassium voltage-gated channel, subfamily H (eag-related), I
NM_144634	Homo sapiens lysozyme-like 4 (LYZL4), mRNA
NM_144635	Homo sapiens hypothetical protein MGC21688 (MGC21688), mRNA
NM_144636	Homo sapiens coiled-coil-helix-coiled-coil-helix domain containing 4 (CHCHE
NM_144637	Homo sapiens zinc finger, DHHC domain containing 19 (ZDHHC19), mRNA

NM_144638	Homo sapiens hypothetical protein MGC29956 (MGC29956), mRNA
NM_14 46 39	Homo sapiens hypothetical protein FLJ31300 (FLJ31300), mRNA
NM_144640	Homo sapiens interleukin 17 receptor E (IL17RE), transcript variant 3, mRNA
NM_144641	Homo sapiens likely ortholog of mouse protein phosphatase 2C eta (FLJ323:
NM_144642	Homo sapiens synaptoporin (SYNPR), mRNA
NM_144643	Homo sapiens hypothetical protein FLJ30655 (FLJ30655), mRNA
NM_144644	Homo sapiens spermatogenesis associated 4 (SPATA4), mRNA
NM_144645	Homo sapiens hypothetical protein MGC26744 (MGC26744), mRNA
NM_144646	Homo sapiens immunoglobulin J polypeptide, linker protein for immunoglobu
NM_144647	Homo sapiens hypothetical protein MGC26610 (MGC26610), mRNA
NM_144648	Homo sapiens hypothetical protein FLJ32786 (FLJ32786), mRNA
NM_144649	Homo sapiens hypothetical protein FLJ33069 (FLJ33069), mRNA
NM_144650	Homo sapiens alcohol dehydrogenase, iron containing, 1 (ADHFE1), mRNA
NM_144651	Homo sapiens hypothetical protein FLJ25471 (FLJ25471), mRNA
NM_144652	Homo sapiens leucine zipper-EF-hand containing transmembrane protein 2 (
NM_144653	Homo sapiens BTB (POZ) domain containing 14A (BTBD14A), mRNA
NM_144654	Homo sapiens chromosome 9 open reading frame 116 (C9orf116), mRNA
NM_144657	Homo sapiens hypothetical protein FLJ30678 (FLJ30678), mRNA
NM_144658	Homo sapiens dedicator of cytokinesis 11 (DOCK11), mRNA
NM_144659	Homo sapiens t-complex 10 (mouse)-like (TCP10L), mRNA
NM_144660	Homo sapiens sterile alpha motif domain containing 8 (SAMD8), mRNA
NM_144661	Homo sapiens chromosome 10 open reading frame 82 (C10orf82), mRNA
NM_144662	Homo sapiens hypothetical protein MGC26605 (MGC26605), mRNA
NM_144663	Homo sapiens NOV1 (NOV1), mRNA
NM_144664	Homo sapiens hypothetical protein MGC33371 (MGC33371), mRNA
NM_144665	Homo sapiens sestrin 3 (SESN3), mRNA
NM_144666	Homo sapiens hypothetical protein FLJ32752 (FLJ32752), mRNA
NM_144667	Homo sapiens hypothetical protein FLJ32894 (FLJ32894), mRNA
NM_144668	Homo sapiens hypothetical protein MGC33630 (MGC33630), mRNA
NM_144669 NM 144670	Homo sapiens hypothetical protein FLJ31978 (FLJ31978), mRNA Homo sapiens hypothetical protein FLJ25179 (FLJ25179), mRNA
NM_144671	Homo sapiens hypothetical protein FLJ32356 (FLJ32356), mRNA
NM 144672	Homo sapiens otoancorin (OTOA), mRNA
NM_144673	Homo sapiens chemokine-like factor super family 2 (CKLFSF2), mRNA
NM 144674	Homo sapiens hypothetical protein FLJ32871 (FLJ32871), mRNA
NM_144675	Homo sapiens hypothetical protein MGC18079 (MGC18079), mRNA
NM 144676	Homo sapiens hypothetical protein MGC23911 (MGC23911), mRNA
NM_144677	Homo sapiens mannosyl (alpha-1,6-)-glycoprotein beta-1,6-N-acetyl-glucosa
NM 144678	Homo sapiens target of myb1-like 2 (chicken) (TOM1L2), mRNA
NM 144679	Homo sapiens hypothetical protein FLJ31528 (FLJ31528), mRNA
NM 144681	Homo sapiens hypothetical protein FLJ32734 (FLJ32734), mRNA
NM 144682	Homo sapiens hypothetical protein FLJ31952 (FLJ31952), mRNA
NM_144683	Homo sapiens hypothetical protein MGC23280 (MGC23280), mRNA
NM_144684	Homo sapiens zinc finger protein 480 (ZNF480), mRNA
NM_144685	Homo sapiens homeodomain interacting protein kinase 4 (HIPK4), mRNA
NM 144686	Homo sapiens transmembrane channel-like 4 (TMC4), mRNA
NM_144687	Homo sapiens NACHT, leucine rich repeat and PYD containing 12 (NALP12)
NM_144688	Homo sapiens hypothetical protein FLJ32658 (FLJ32658), mRNA
NM_144689	Homo sapiens hypothetical protein FLJ32191 (FLJ32191), mRNA
NM_14 46 90	Homo sapiens zinc finger protein 582 (ZNF582), mRNA
NM_144691	Homo sapiens calpain 12 (CAPN12), mRNA
NM_144692	Homo sapiens hypothetical protein BC017947 (LOC148137), mRNA
NM_144693	Homo sapiens zinc finger protein 558 (ZNF558), mRNA
NM_144694	Homo sapiens zinc finger protein 570 (ZNF570), mRNA
NM_144695	Homo sapiens hypothetical protein FLJ32421 (FLJ32421), mRNA
NM_144696	Homo sapiens hypothetical protein FLJ32940 (DKFZp686H1423), transcript
NM_144697	Homo sapiens hypothetical protein BC017397 (LOC148523), mRNA

NM 144698	Homo sapiens hypothetical protein FLJ25124 (FLJ25124), mRNA
NM 144699	Homo sapiens ATPase, Na+/K+ transporting, alpha 4 polypeptide (ATP1A4),
NM_144701	Homo sapiens interleukin-23 receptor (IL23R), mRNA
NM_144702	Homo sapiens hypothetical protein FLJ32884 (FLJ32884), mRNA
NM 144703	Homo sapiens chromosome 20 open reading frame 40 (C20orf40), mRNA
NM 144704	Homo sapiens hypothetical protein FLJ30473 (FLJ30473), mRNA
NM_144705	Homo sapiens hypothetical protein MGC27019 (MGC27019), mRNA
NM 144706	Homo sapiens chromosome 2 open reading frame 15 (C2orf15), mRNA
NM 144707	Homo sapiens prominin 2 (PROM2), mRNA
NM 144709	Homo sapiens hypothetical protein FLJ32312 (FLJ32312), mRNA
NM_144710	Homo sapiens septin 10 (SEPT10), transcript variant 1, mRNA
NM 144711	Homo sapiens hypothetical protein MGC22679 (MGC22679), mRNA
NM_144712	Homo sapiens solute carrier family 23 (nucleobase transporters), member 3
NM 144713	Homo sapiens hypothetical protein FLJ32954 (FLJ32954), mRNA
NM_144714	Homo sapiens hypothetical protein MGC27069 (FLJ25449), mRNA
NM 144715	Homo sapiens hypothetical protein FLJ25200 (FLJ25200), mRNA
NM_144716	Homo sapiens hypothetical protein MGC23918 (MGC23918), mRNA
NM 144717	Homo sapiens hypothetical protein MGC34923 (MGC34923), mRNA
NM 144718	Homo sapiens hypothetical protein AY099107 (LOC152185), mRNA
NM 144719	Homo sapiens hypothetical protein FLJ25467 (FLJ25467), mRNA
NM_144720	Homo sapiens multiple coiled-coil GABABR1-binding protein (MARLIN1), mF
NM 144721	Homo sapiens THAP domain containing 6 (THAP6), mRNA
NM_144722	Homo sapiens KPL2 protein (FLJ23577), transcript variant 2, mRNA
NM_144723	Homo sapiens hypothetical protein FLJ31121 (FLJ31121), mRNA
NM 144724	Homo saplens MARVEL domain containing 2 (MARVELD2), mRNA
NM_144725	Homo sapiens hypothetical protein FLJ25439 (FLJ25439), mRNA
NM 144726	Homo sapiens hypothetical protein FLJ31951 (FLJ31951), mRNA
NM_144727	Homo sapiens crystallin, gamma N (CRYGN), mRNA
NM_144728	Homo sapiens dual specificity phosphatase 10 (DUSP10), transcript variant 2
NM_144729	Homo sapiens dual specificity phosphatase 10 (DUSP10), transcript variant (
NM_144732	Homo sapiens heterogeneous nuclear ribonucleoprotein U-like 1 (HNRPUL1
NM_144733	Homo sapiens heterogeneous nuclear ribonucleoprotein U-like 1 (HNRPUL1
NM_144734	Homo sapiens heterogeneous nuclear ribonucleoprotein U-like 1 (HNRPUL1
NM_144736	Homo sapiens hypothetical protein PRO1853 (PRO1853), transcript variant 1
NM_144765	Homo sapiens epithelial V-like antigen 1 (EVA1), transcript variant 2, mRNA
NM_144766	Homo sapiens regulator of G-protein signalling 13 (RGS13), transcript varian
NM_144767	Homo sapiens A kinase (PRKA) anchor protein 13 (AKAP13), transcript varia
NM_144769	Homo sapiens forkhead box I1 (FOXI1), transcript variant 2, mRNA
NM_144770	Homo sapiens RNA binding motif protein 11 (RBM11), mRNA
NM_144772	Homo sapiens apolipoprotein A-I binding protein (APOA1BP), mRNA
NM_144773	Homo sapiens G protein-coupled receptor 73-like 1 (GPR73L1), mRNA
NM_144775	Homo sapiens Smith-Magenis syndrome chromosome region, candidate 8 (\$ Homo sapiens formyltetrahydrofolate dehydrogenase (FTHFD), transcript val
NM_144776	Homo sapiens sciellin (SCEL), transcript variant 2, mRNA
NM_144777 NM_144778	Homo sapiens muscleblind-like 2 (Drosophila) (MBNL2), transcript variant 1,
NM_144778	Homo sapiens FXYD domain containing ion transport regulator 5 (FXYD5), tr
NM 144780	Homo sapiens degenerative spermatocyte homolog, lipid desaturase (Droso)
NM_144781	Homo sapiens programmed cell death 2 (PDCD2), transcript variant 2, mRN
NM 144782	Homo sapiens carnitine acetyltransferase (CRAT), transcript variant 3, mRN/
NM_144947	Homo sapiens kallikrein 11 (KLK11), transcript variant 2, mRNA
NM_144949	Homo sapiens suppressor of cytokine signaling 5 (SOCS5), transcript variant
NM_144956	Homo sapiens protease, serine, 21 (testisin) (PRSS21), transcript variant 2, I
NM_144957	Homo sapiens protease, serine, 21 (testisin) (PRSS21), transcript variant 3, ı
NM_144962	Homo sapiens hypothetical protein MGC22776 (MGC22776), mRNA
NM_144963	Homo sapiens hypothetical protein FLJ23790 (FLJ23790), mRNA
NM_144964	Homo sapiens RNA (guanine-9-) methyltransferase domain containing 3 (RC
NM_144965	Homo sapiens tetratricopeptide repeat domain 16 (TTC16), mRNA

NM_144966	Homo sapiens chromosome 9 open reading frame 154 (C9orf154), mRNA
NM_144967	Homo sapiens hypothetical protein FLJ30058 (FLJ30058), mRNA
NM_144968	Homo sapiens hypothetical protein FLJ32783 (FLJ32783), mRNA
NM_144969	Homo sapiens zinc finger, DHHC domain containing 15 (ZDHHC15), mRNA
NM_144970	Homo sapiens hypothetical protein MGC39350 (MGC39350), mRNA
NM_144972	Homo sapiens lactate dehydrogenase A-like 6A (LDHAL6A), mRNA
NM_144973	Homo sapiens hypothetical protein MGC24039 (MGC24039), mRNA
NM_144974	Homo sapiens hypothetical protein FLJ31846 (FLJ31846), mRNA
NM_144975	Homo sapiens hypothetical protein MGC19764 (MGC19764), mRNA
NM_144976	Homo sapiens zinc finger protein 564 (ZNF564), mRNA
NM_144977	Homo sapiens family with sequence similarity 31, member B (FAM31B), mRt
NM_144978	Homo sapiens hypothetical protein FLJ32745 (FLJ32745), mRNA
NM_144979	Homo sapiens hypothetical protein MGC27016 (MGC27016), mRNA
NM_144980	Homo sapiens chromosome 6 open reading frame 118 (C6orf118), mRNA
NM_144981	Homo sapiens hypothetical protein FLJ25059 (FLJ25059), mRNA
NM_144982	Homo sapiens hypothetical protein MGC23401 (MGC23401), mRNA
NM_144984	Homo sapiens chromosome 10 open reading frame 72 (C10orf72), mRNA
NM 144985	Homo sapiens cadherin-like 24 (CDH24), mRNA
NM 144987	Homo sapiens U2(RNU2) small nuclear RNA auxiliary factor 1-like 3 (U2AF1
NM 144988	Homo sapiens hypothetical protein MGC19780 (MGC19780), mRNA
NM_144990	Homo sapiens hypothetical protein FLJ23878 (FLJ23878), mRNA
NM 144991	Homo sapiens chromosome 21 open reading frame 29 (C21orf29), mRNA
NM 144992	Homo sapiens hypothetical protein MGC26733 (MGC26733), mRNA
NM 144994	Homo sapiens ankyrin repeat domain 23 (ANKRD23), mRNA
NM 144995	Homo sapiens DEAH (Asp-Glu-Ala-Asp/His) box polypeptide 57 (DHX57), tra
NM_144996	Homo sapiens hypothetical protein DKFZp761H079 (DKFZp761H079), trans-
NM 144997	Homo sapiens folliculin (BHD), transcript variant 1, mRNA
NM_144998	Homo sapiens stimulated by retinoic acid 13 (STRA13), mRNA
NM 144999	Homo sapiens hypothetical protein MGC20806 (MGC20806), mRNA
NM_145000	Homo sapiens hypothetical protein FLJ25422 (FLJ25422), mRNA
NM 145001	Homo sapiens serine/threonine kinase 32A (STK32A), mRNA
NM_145003	Homo sapiens hypothetical protein FLJ31164 (FLJ31164), mRNA
NM_145004	Homo sapiens a disintegrin and metalloproteinase domain 32 (ADAM32), mF
NM_145005	Homo sapiens chromosome 9 open reading frame 72 (C9orf72), transcript va
NM 145006	Homo sapiens sushi domain containing 3 (SUSD3), mRNA
NM 145007	Homo sapiens NACHT, leucine rich repeat and PYD containing 11 (NALP11)
NM_145008	Homo sapiens hypothetical protein FLJ30213 (FLJ30213), mRNA
NM 145010	Homo sapiens chromosome 10 open reading frame 63 (C10orf63), mRNA
NM_145011	Homo sapiens zinc finger protein 25 (KOX 19) (ZNF25), mRNA
NM 145012	Homo sapiens chromosome 10 open reading frame 9 (C10orf9), mRNA
NM_145013	Homo sapiens hypothetical protein MGC35558 (MGC35558), mRNA
NM 145014	Homo sapiens hypothetical protein FLJ32915 (FLJ32915), mRNA
NM_145015	Homo sapiens MAS-related GPR, member F (MRGPRF), mRNA
NM 145016	Homo sapiens BXMAS2-10 (BXMAS2-10), mRNA
NM_145017	Homo sapiens IIIG9 protein (FLJ32771), mRNA
NM 145018	Homo sapiens hypothetical protein FLJ25416 (FLJ25416), mRNA
NM_145019	Homo sapiens hypothetical protein FLJ30707 (FLJ30707), mRNA
NM_145019	Homo sapiens hypothetical protein FLJ32743 (FLJ32743), mRNA
NM 145021	Homo sapiens c-mir, cellular modulator of immune recognition (MIR), transcr
NM_145023	Homo sapiens coiled-coil domain containing 7 (CCDC7), mRNA
NM 145024	Homo sapiens hypothetical protein FLJ31547 (FLJ31547), mRNA
NM 145024	Homo sapiens chromosome 6 open reading frame 199 (C6orf199), mRNA
NM 145026	Homo sapiens spermatogenesis associated, serine-rich 1 (SPATS1), mRNA
NM_145027	Homo sapiens chromosome 6 open reading frame 102 (C6orf102), mRNA
NM 145028	Homo sapiens chromosome 6 open reading frame 81 (C6orf81), mRNA
NM_145029	Homo sapiens chromosome 6 open reading frame 136 (C6orf136), mRNA
NM_145030	Homo sapiens hypothetical protein MGC22793 (MGC22793), mRNA
14141_1-1-0000	Tomo dapiono hypothotical protein model roo (model roo), milita

NM_145032	Homo sapiens F-box and leucine-rich repeat protein 13 (FBXL13), mRNA
NM 145033	Homo sapiens chromosome 21 open reading frame 100 (C21orf100), mRNA
NM_145034	Homo sapiens AF464140 (LOC163590), mRNA
NM_145035	Homo sapiens ADMP (ADMP), mRNA
NM_145036	Homo sapiens hypothetical protein MGC33887 (MGC33887), mRNA
NM 145037	Homo sapiens hypothetical protein MGC15606 (MGC15606), mRNA
NM_145038	Homo sapiens CG10958-like (MGC16372), mRNA
NM_145039	Homo sapiens hypothetical protein MGC16385 (MGC16385), mRNA
NM 145040	Homo sapiens protein kinase C, delta binding protein (PRKCDBP), mRNA
NM 145041	Homo sapiens hypothetical protein MGC20235 (MGC20235), mRNA
	Homo sapiens alpha tubulin-like (MGC16703), mRNA
NM_145042 NM_145043	Homo sapiens nei like 2 (E. coli) (NEIL2), mRNA
_	Homo sapiens zinc finger protein 501 (ZNF501), mRNA
NM_145044	Homo sapiens hypothetical protein MGC20983 (MGC20983), mRNA
NM_145045	Homo sapiens calreticulin 3 (CALR3), mRNA
NM_145046	Homo sapiens oxidored-nitro domain-containing protein (NOR1), transcript v
NM_145047	Homo sapiens hypothetical protein MGC29898 (MGC29898), mRNA
NM_145048	Homo sapiens hypothetical protein MGC10067 (MGC10067), mRNA
NM_145049	Homo sapiens hypothetical protein MGC27434 (MGC27434), mRNA
NM_145050	Homo sapiens hypothetical protein MCC4734 (MCC4734), mRNA
NM_145051	Homo sapiens hypothetical protein MGC4734 (MGC4734), mRNA
NM_145052	Homo sapiens hypothetical protein MGC23937 similar to CG4798 (MGC2393
NM_145053	Homo saplens hypothetical protein MGC20470 (MGC20470), mRNA
NM_145054	Homo sapiens hypothetical protein LOC146845 (LOC146845), mRNA Homo sapiens chromosome 18 open reading frame 25 (C18orf25), mRNA
NM_145055	Homo sapiens thymus expressed gene 3-like (MGC15476), mRNA
NM_145056	Homo sapiens CDC42 effector protein (Rho GTPase binding) 5 (CDC42EP5)
NM_145057	Homo sapiens hypothetical protein MGC7036 (MGC7036), mRNA
NM_145058	Homo sapiens fucokinase (FUK), mRNA
NM_145059	Homo sapiens chromosome 18 open reading frame 24 (C18orf24), mRNA
NM_145060	Homo sapiens chromosome 13 open reading frame 3 (C13orf3), mRNA
NM_145061 NM 145062	Homo sapiens chromosome 6 open reading frame 113 (C6orf113), mRNA
NM 145063	Homo sapiens chromosome 6 open reading frame 130 (C6orf130), mRNA
NM_145064	Homo sapiens SH3 and cysteine rich domain 3 (STAC3), mRNA
NM_145065	Homo sapiens pellino 3 alpha (MGC35521), mRNA
NM_145068	Homo sapiens transient receptor potential cation channel, subfamily V, mem
NM 145071	Homo sapiens cytokine inducible SH2-containing protein (CISH), transcript v
NM_145074	Homo sapiens protease, serine, 25 (PRSS25), nuclear gene encoding mitocl
NM 145080	Homo sapiens non-SMC (structural maintenance of chromosomes) element
NM 145102	Homo sapiens zinc finger protein 95 homolog (mouse) (ZFP95), transcript va
NM 145109	Homo sapiens mitogen-activated protein kinase kinase 3 (MAP2K3), transcri
NM_145110	Homo sapiens mitogen-activated protein kinase kinase 3 (MAP2K3), transcri
NM_145111	Homo sapiens hypothetical protein DKFZp727G131 (DKFZp727G131), mRN
NM_145112	
NM_145113	Homo sapiens MAX protein (MAX), transcript variant 3, mRNA
NM 145114	
NM_145115	Homo sapiens zinc finger protein 498 (ZNF498), mRNA
NM_145116	Homo sapiens MAX protein (MAX), transcript variant 5, mRNA
NM_145117	
NM 145119	Homo sapiens praja 1 (PJA1), mRNA
NM 145159	Homo sapiens jagged 2 (JAG2), transcript variant 2, mRNA
NM_145160	Homo sapiens mitogen-activated protein kinase kinase 5 (MAP2K5), transcri
NM_145161	Homo sapiens mitogen-activated protein kinase kinase 5 (MAP2K5), transcri
NM_145162	Homo sapiens mitogen-activated protein kinase kinase 5 (MAP2K5), transcri
NM_145165	Homo sapiens churchill domain containing 1 (CHURC1), mRNA
NM_145166	Homo sapiens hypothetical protein KIAA1190 (KIAA1190), mRNA
NM_145167	
NM_145168	Homo sapiens NAD(P) dependent steroid dehydrogenase-like (HSPC105), n

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NM_145169	Homo sapiens chromosome 6 open reading frame 83 (C6orf83), mRNA
NM_145170	Homo sapiens tetratricopeptide repeat domain 18 (TTC18), mRNA
NM_145171	Homo sapiens glycoprotein hormone beta 5 (GPHB5), mRNA
NM_145172	Homo sapiens testis development protein NYD-SP29 (NYD-SP29), mRNA
NM_145173	Homo sapiens DIRAS family, GTP-binding RAS-like 1 (DIRAS1), mRNA
NM_145174	Homo sapiens DnaJ (Hsp40) homolog, subfamily B, member 7 (DNAJB7), m
NM_145175	Homo sapiens NSE1 (NSE1), mRNA
NM_145176	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member
NM_145177	Homo sapiens dehydrogenase/reductase (SDR family) X-linked (DHRSX), m
NM_145178	Homo sapiens atonal homolog 7 (Drosophila) (ATOH7), mRNA
NM_145179	Homo sapiens chromosome 21 open reading frame 93 (C21orf93), mRNA
NM_145180	Homo sapiens chromosome 21 open reading frame 94 (C21orf94), mRNA
NM 145182	Homo sapiens PYD and CARD domain containing (PYCARD), transcript vari
NM_145183	Homo sapiens PYD and CARD domain containing (PYCARD), transcript variables
NM_145185	Homo sapiens mitogen-activated protein kinase kinase 7 (MAP2K7), mRNA
NM 145186	Homo sapiens ATP-binding cassette, sub-family C (CFTR/MRP), member 11
NM_145187	Homo sapiens ATP-binding cassette, sub-family C (CFTR/MRP), member 12
NM 145188	Homo sapiens ATP-binding cassette, sub-family C (CFTR/MRP), member 12
NM_145189	Homo sapiens ATP-binding cassette, sub-family C (CFTR/MRP), member 12
NM 145190	Homo sapiens ATP-binding cassette, sub-family C (CFTR/MRP), member 12
NM_145196	Homo sapiens lipoyltransferase 1 (LIPT1), transcript variant 2, mRNA
NM 145197	Homo sapiens lipoyltransferase 1 (LIPT1), transcript variant 3, mRNA
NM 145198	Homo sapiens lipoyltransferase 1 (LIPT1), transcript variant 4, mRNA
NM_145199	Homo sapiens lipoyltransferase 1 (LIPT1), transcript variant 5, mRNA
NM 145200	Homo sapiens calcium binding protein 4 (CABP4), mRNA
NM 145201	Homo sapiens similar to CG3714 gene product (PP3856), mRNA
NM 145202	Homo sapiens proline-rich acidic protein 1 (PRAP1), mRNA
NM 145203	Homo sapiens casein kinase 1, alpha 1-like (CSNK1A1L), mRNA
NM 145204	Homo sapiens SUMO/sentrin specific protease family member 8 (SENP8), m
NM_145205	Homo sapiens HMG2 like (LOC127540), mRNA
NM 145206	Homo sapiens vesicle transport through interaction with t-SNAREs homolog
NM_145207	Homo sapiens spermatogenesis associated 5 (SPATA5), mRNA
NM 145208	Homo sapiens methyl-CpG binding domain protein 3-like 1 (MBD3L1), mRN/
NM_145212	Homo sapiens mitochondrial ribosomal protein L30 (MRPL30), nuclear gene
NM 145213	Homo sapiens mitochondrial ribosomal protein L30 (MRPL30), nuclear gene
NM 145214	Homo sapiens tripartite motif-containing 11 (TRIM11), mRNA
NM 145230	Homo sapiens chromosome 7 open reading frame 32 (C7orf32), mRNA
NM 145231	Homo sapiens chromosome 14 open reading frame 143 (C14orf143), mRNA
NM_145232	Homo sapiens LOC90353 (LOC90353), mRNA
NM 145233	Homo sapiens zinc finger protein 625 (ZNF625), mRNA
NM 145234	Homo sapiens chordin-like 1 (CHRDL1), mRNA
NM 145235	Homo sapiens fibronectin type 3 and ankyrin repeat domains 1 (FANK1), mR
NM_145236	Homo sapiens UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransfera
NM 145237	Homo sapiens similar to RNA polymerase I transcription factor RRN3 (LOC9
NM 145238	Homo sapiens zinc finger protein 31 (KOX 29) (ZNF31), mRNA
NM_145239	Homo sapiens similar to lymphocyte antigen 6 complex, locus G5B; G5b prof
NM 145241	Homo sapiens WD repeat domain 31 (WDR31), mRNA
NM_145242	Homo sapiens similar to POSSIBLE GUSTATORY RECEPTOR CLONE PTE
NM 145243	Homo sapiens metalloprotease related protein 1 (MPRP-1), mRNA
NM_145244	Homo sapiens DNA-damage-inducible transcript 4-like (DDIT4L), mRNA
NM 145245	Homo sapiens ecotropic viral integration site 5-like (EVI5L), mRNA
NM_145246	Homo sapiens chromosome 10 open reading frame 4 (C10orf4), transcript va
NM 145247	Homo sapiens chromosome 10 open reading frame 78 (C10orf78), transcript
NM_145248	Homo sapiens LOC122258 (LOC122258), mRNA
NM 145249	
NM_145250	Homo sapiens chromosome 14 open reading frame 6 (C14orf6), mRNA
NM_145251	Homo sapiens serine/threonine/tyrosine interacting protein (STYX), mRNA
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NM_145252	Homo sapiens similar to common salivary protein 1 (LOC124220), mRNA
NM_145253	Homo sapiens LOC124402 (LOC124402), mRNA
NM_145254	Homo sapiens LOC124491 (LOC124491), mRNA
NM_145255	Homo sapiens mitochondrial ribosomal protein L10 (MRPL10), nuclear gene
NM_145256	Homo sapiens leucine rich repeat containing 25 (LRRC25), mRNA
NM_145257	Homo sapiens LOC126731 (LOC126731), mRNA
NM_145258	Homo sapiens hypothetical protein MGC22773 (MGC22773), mRNA
NM_145259	Homo sapiens activin A receptor, type IC (ACVR1C), mRNA
NM 145260	Homo sapiens odd-skipped homolog (Drosophila) (ODD), mRNA
NM_145261	Homo sapiens homolog of yeast TIM14 (TIM14), transcript variant 1, mRNA
NM 145262	Homo sapiens CG9886-like (GLYCTK), mRNA
NM_145263	Homo sapiens LOC132671 (LOC132671), mRNA
NM_145265	Homo sapiens similar to RIKEN cDNA 0610011N22 (LOC133957), mRNA
NM 145266	Homo sapiens similar to RIKEN cDNA 2700047N05 (LOC134492), mRNA
NM_145267	Homo sapiens chromosome 6 open reading frame 57 (C6orf57), mRNA
NM_145268	Homo sapiens LOC136263 (LOC136263), mRNA
NM_145269	Homo sapiens similar to CG6405 gene product (LOC137392), mRNA
NM 145270	Homo sapiens similar to hypothetical protein FLJ13841 (LOC146325), mRN/
NM_145271	Homo sapiens similar to hypothetical protein MGC13138 (LOC146542), mRN
NM_145272	Homo sapiens LOC146853 (LOC146853), mRNA
NM 145273	Homo sapiens triggering receptor expressed on myeloid cells 4 (TREM4), mf
NM_145274	Homo sapiens hypothetical protein MGC21518 (MGC21518), mRNA
NM_145275	Homo sapiens kinesin light chain 2-like (KLC2L), transcript variant 2, mRNA
NM 145276	Homo sapiens zinc finger protein 563 (ZNF563), mRNA
NM_145277	Homo sapiens hemochromatosis type 2 (juvenile) (HFE2), transcript variant t
NM_145278	Homo sapiens LOC148823 (LOC148823), mRNA
NM_145279	Homo sapiens MOB1, Mps One Binder kinase activator-like 2C (yeast) (MOE
NM_145280	Homo sapiens similar to hepatocellular carcinoma-associated antigen HCA5!
NM_145282	Homo sapiens similar to CG4995 gene product (LOC153328), mRNA
NM_145283	Homo sapiens chromosome 9 open reading frame 121 (C9orf121), mRNA
NM_145284	Homo sapiens similar to hypothetical protein MGC17347 (LOC159090), mRN
NM_145285	Homo sapiens NK2 transcription factor related, locus 3 (Drosophila) (NKX2-3
NM_145286	Homo sapiens stomatin (EPB72)-like 3 (STOML3), mRNA
NM_145287	Homo sapiens zinc finger protein 519 (ZNF519), mRNA
NM_145288	Homo sapiens zinc finger protein 342 (ZNF342), mRNA
NM_145291	Homo sapiens zinc finger protein 509 (ZNF509), mRNA
NM_145292	Homo sapiens UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylga
NM_145293	Homo sapiens similar to hypothetical protein FLJ20897 (LOC196549), mRN/
NM_145294	Homo sapiens similar to RIKEN cDNA 3230401M21 [Mus musculus] (LOC19
NM_145295	Homo sapiens zinc finger protein 627 (ZNF627), mRNA
NM_145296	Homo sapiens immunoglobulin superfamily, member 4C (IGSF4C), mRNA
NM_145297	Homo sapiens zinc finger protein 626 (ZNF626), mRNA
NM_145298	Homo sapiens apolipoprotein B mRNA editing enzyme, catalytic polypeptide-
NM_145299	Homo sapiens similar to Dynein heavy chain at 16F (LOC200383), mRNA
NM_145300	Homo sapiens LOC200420 (LOC200420), mRNA
NM_145301	Homo sapiens similar to CGI-148 protein (LOC201158), mRNA
NM_145303	Homo sapiens similar to RIKEN cDNA 2310008M10 (LOC202459), mRNA
NM_145304	Homo sapiens chromosome 7 open reading frame 33 (C7orf33), mRNA
NM_145305	Homo sapiens similar to solute carrier family 25, member 16 (LOC203427),
NM_145306	Homo sapiens chromosome 10 open reading frame 35 (C10orf35), mRNA
NM_145307	Homo sapiens pleckstrin homology domain containing, family K member 1 (F
NM_145308	Homo sapiens hypothetical protein BC004224 (LOC220070), mRNA
NM_145309	Homo sapiens Hypothetical 55.1 kDa protein F09G8.5 in chromosome III (LC
NM_145310	Homo sapiens zinc finger protein 258 (ZNF258), mRNA
NM_145311	Homo sapiens crystallin, zeta (quinone reductase)-like 1 (CRYZL1), transcrip
NM_145312	Homo sapiens zinc finger protein 485 (ZNF485), mRNA
NM_145313	Homo sapiens RasGEF domain family, member 1A (RASGEF1A), mRNA

NM_145314	Homo sapiens chromosome 10 open reading frame 49 (C10orf49), mRNA
NM_145315	Homo sapiens lactation elevated 1 (LACE1), mRNA
NM_145316	Homo sapiens chromosome 6 open reading frame 128 (C6orf128), mRNA
NM_145320	Homo saplens oxysterol binding protein-like 3 (OSBPL3), transcript variant 2
NM_145321	Homo sapiens oxysterol binding protein-like 3 (OSBPL3), transcript variant 3
NM_145322	Homo sapiens oxysterol binding protein-like 3 (OSBPL3), transcript variant 4
NM_145323	Homo sapiens oxysterol binding protein-like 3 (OSBPL3), transcript variant 5
NM_145324	Homo sapiens oxysterol binding protein-like 3 (OSBPL3), transcript variant 6
NM_145325	Homo sapiens DNA directed RNA polymerase II polypeptide J-related gene (
NM_145326	Homo sapiens similar to hypothetical protein FLJ13659 (LOC115648), mRN/
NM_145328	Homo sapiens chromosome 21 open reading frame 66 (C21orf66), transcript
NM_145330	Homo sapiens mitochondrial ribosomal protein L33 (MRPL33), nuclear gene
NM_145331	Homo sapiens mitogen-activated protein kinase kinase kinase 7 (MAP3K7), t
NM_145332	Homo sapiens mitogen-activated protein kinase kinase kinase 7 (MAP3K7), t
NM_145333	Homo sapiens mitogen-activated protein kinase kinase kinase 7 (MAP3K7), t
NM_145341	Homo sapiens programmed cell death 4 (neoplastic transformation inhibitor)
NM_145342	Homo sapiens mitogen-activated protein kinase kinase kinase 7 interacting p
NM_145343	Homo sapiens apolipoprotein L, 1 (APOL1), transcript variant 2, mRNA
NM_145344	Homo sapiens apolipoprotein L, 1 (APOL1), transcript variant 3, mRNA
NM_145345	Homo sapiens socius (SOC), mRNA
NM_145346	Homo sapiens socius (SOC), mRNA
NM_145347	Homo sapiens kringle containing transmembrane protein 2 (KREMEN2), tran
NM_145348	Homo sapiens kringle containing transmembrane protein 2 (KREMEN2), tran
NM_145349	Homo sapiens scavenger receptor class F, member 1 (SCARF1), transcript v
NM_145350	Homo sapiens scavenger receptor class F, member 1 (SCARF1), transcript v
NM_145351	Homo sapiens scavenger receptor class F, member 1 (SCARF1), transcript v
NM_145352	Homo sapiens scavenger receptor class F, member 1 (SCARF1), transcript v
NM_145637	Homo sapiens apolipoprotein L, 2 (APOL2), transcript variant beta, mRNA
NM_145638	Homo sapiens oxysterol binding protein-like 5 (OSBPL5), transcript variant 2
NM_145639	Homo sapiens apolipoprotein L, 3 (APOL3), transcript variant alpha/c, mRNA
NM_145640	Homo sapiens apolipoprotein L, 3 (APOL3), transcript variant alpha/d, mRNA
NM_145641	Homo sapiens apolipoprotein L, 3 (APOL3), transcript variant beta/a, mRNA
NM_145642	Homo sapiens apolipoprotein L, 3 (APOL3), transcript variant beta/b, mRNA
NM_145644	Homo sapiens mitochondrial ribosomal protein L35 (MRPL35), nuclear gene
NM_145645	Homo sapiens Williams-Beuren Syndrome critical region protein 20 copy B (
NM_145646	Homo sapiens DEAH (Asp-Glu-Ala-Asp/His) box polypeptide 57 (DHX57), tra
NM_145647	Homo sapiens unknown MGC21654 product (MGC21654), mRNA
NM_145648	Homo sapiens solute carrier family 15, member 4 (SLC15A4), mRNA
NM_145649	Homo sapiens glucosaminyl (N-acetyl) transferase 2, I-branching enzyme (G
NM_145650	Homo sapiens mucin 15 (MUC15), mRNA
NM_145651	Homo sapiens ligand binding protein RYD5 (RYD5), mRNA
NM_145652	Homo sapiens WAP four-disulfide core domain 5 (WFDC5), mRNA
NM_145653	Homo sapiens transcription elongation factor B polypeptide 3C (elongin A3)
NM_145654	Homo sapiens RAD52 homolog B (S. cerevisiae) (RAD52B), mRNA
NM_145655	Homo sapiens glucosaminyl (N-acetyl) transferase 2, I-branching enzyme (G
NM_145657	Homo sapiens GS homeobox 1 (GSH1), mRNA
NM_145658	Homo sapiens sperm equatorial segment protein 1 (SPESP1), mRNA
NM_145659	Homo sapiens interleukin 27 (IL27), mRNA
NM_145660	Homo sapiens apolipoprotein L, 4 (APOL4), transcript variant b, mRNA
NM_145662	Homo sapiens SPANX family, member A2 (SPANXA2), mRNA
NM_145663	Homo sapiens Dbf4-related factor 1 (DRF1), transcript variant 1, mRNA
NM_145664	Homo sapiens SPANX family, member B2 (SPANXB2), mRNA
NM_145665	Homo sapien's SPANX family, member E (SPANXE), mRNA
NM_145685	Homo sapiens BRF1 homolog, subunit of RNA polymerase III transcription in
NM_145686	Homo sapiens mitogen-activated protein kinase kinase kinase kinase 4 (MAF
NM_145687	Homo sapiens mitogen-activated protein kinase kinase kinase kinase 4 (MAF
NM_145689	Homo sapiens amyloid beta (A4) precursor protein-binding, family B, membe
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NM_145690 NM_145691	Homo sapiens tyrosine 3-monooxygenase/tryptophan 5-monooxygenase acti Homo sapiens ATP synthase mitochondrial F1 complex assembly factor 2 (A
NM_145693	Homo sapiens lipin 1 (LPIN1), mRNA
NM_145695	Homo sapiens diacylglycerol kinase, beta 90kDa (DGKB), transcript variant 2
NM_145696	Homo sapiens BRF1 homolog, subunit of RNA polymerase III transcription in
NM_145697	Homo sapiens cell division cycle associated 1 (CDCA1), transcript variant 1,
NM_145698	Homo sapiens acyl-Coenzyme A binding domain containing 5 (ACBD5), mRI
NM_145699	Homo sapiens apolipoprotein B mRNA editing enzyme, catalytic polypeptide-
NM_145701	Homo sapiens cell division cycle associated 4 (CDCA4), transcript variant 2,
NM_145702	Homo sapiens tigger transposable element derived 1 (TIGD1), mRNA
NM_145714	Homo sapiens ataxin 2 related protein (A2LP), transcript variant B, mRNA
NM_145715	Homo sapiens tigger transposable element derived 2 (TIGD2), mRNA
NM_145716	Homo sapiens single stranded DNA binding protein 3 (SSBP3), mRNA
NM_145719	Homo sapiens tigger transposable element derived 3 (TIGD3), mRNA
NM_145720	Homo sapiens tigger transposable element derived 4 (TIGD4), mRNA
NM_145725	Homo sapiens TNF receptor-associated factor 3 (TRAF3), transcript variant '
NM_145726	Homo sapiens TNF receptor-associated factor 3 (TRAF3), transcript variant 2
NM_145727	Homo saplens Iipoprotein, Lp(a)-like 2 (LPAL2), transcript variant 2, mRNA
NM_145728	Homo sapiens desmuslin (DMN), transcript variant A, mRNA
NM_145729	Homo sapiens mitochondrial ribosomal protein L24 (MRPL24), nuclear gene
NM_145730	Homo sapiens adaptor-related protein complex 1, beta 1 subunit (AP1B1), tra
NM_145731	Homo sapiens synaptogyrin 1 (SYNGR1), transcript variant 1b, mRNA
NM_145733	Homo sapiens septin 3 (SEPT3), transcript variant A, mRNA
NM_145734	Homo sapiens septin 3 (SEPT3), transcript variant C, mRNA
NM_145735	Homo sapiens Rho guanine nucleotide exchange factor (GEF) 7 (ARHGEF7)
NM_145738	Homo sapiens synaptogyrin 1 (SYNGR1), transcript variant 1c, mRNA
NM_145739	Homo sapiens oxysterol binding protein-like 6 (OSBPL6), transcript variant 2
NM_145740	Homo sapiens glutathione S-transferase A1 (GSTA1), mRNA
NM_145747	Homo sapiens thioredoxin reductase 2 (TXNRD2), nuclear gene encoding mi Homo sapiens thioredoxin reductase 2 (TXNRD2), nuclear gene encoding mi
NM_145748	Homo sapiens TNF receptor-associated factor 4 (TRAF4), transcript variant 2
NM_145751 NM 145752	Homo sapiens CDP-diacylglycerolinositol 3-phosphatidyltransferase (phosp
NM 145753	Homo sapiens Deckstrin homology-like domain, family B, member 2 (PHLDE
NM_145754	Homo sapiens kinesin family member C2 (KIFC2), mRNA
NM_145755	Homo sapiens TPR domain containing STI2 (STI2), mRNA
NM 145756	Homo sapiens zinc finger protein 396 (ZNF396), mRNA
NM_145759	Homo sapiens TNF receptor-associated factor 5 (TRAF5), transcript variant 2
NM_145762	Homo sapiens GDNF family receptor alpha 4 (GFRA4), transcript variant 2, r
NM_145763	Homo sapiens GDNF family receptor alpha 4 (GFRA4), transcript variant 3, r
NM_145764	Homo sapiens microsomal glutathione S-transferase 1 (MGST1), transcript v
NM_145791	Homo sapiens microsomal glutathione S-transferase 1 (MGST1), transcript v
NM_145792	Homo sapiens microsomal glutathione S-transferase 1 (MGST1), transcript v
NM_145793	Homo sapiens GDNF family receptor alpha 1 (GFRA1), transcript variant 2, r
NM_145794	Homo sapiens downstream neighbor of SON (DONSON), transcript variant 2
NM_145795	Homo sapiens downstream neighbor of SON (DONSON), transcript variant 3
NM_145796	Homo sapiens pogo transposable element with ZNF domain (POGZ), transcr
NM_145798	Homo sapiens oxysterol binding protein-like 7 (OSBPL7), transcript variant 1
NM_145799	Homo sapiens septin 6 (SEPT6), transcript variant I, mRNA
NM_145800	Homo sapiens septin 6 (SEPT6), transcript variant III, mRNA
NM_145802	Homo sapiens Septin 6 (SEPT6), transcript variant V, mRNA
NM_145803	Homo sapiens TNF receptor-associated factor 6 (TRAF6), transcript variant 'Homo sapiens ankyrin repeat and BTB (POZ) domain containing 2 (ABTB2),
NM_145804	Homo sapiens ISL2 transcription factor, LIM/homeodomain, (islet-2) (ISL2), r
NM_145805 NM_145806	Homo sapiens zinc finger protein 511 (ZNF511), mRNA
NM_145806 NM_145807	Homo sapiens hypothetical protein BC018697 (LOC126147), mRNA
NM 145808	Homo sapiens myotrophin (MTPN), mRNA
NM_145809	Homo sapiens TL132 protein (LOC220594), mRNA
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NM_145810	Homo sapiens cell division cycle associated 7 (CDCA7), transcript variant 2,
NM_145811	Homo sapiens calcium channel, voltage-dependent, gamma subunit 5 (CACI
NM_145812	Homo sapiens programmed cell death 8 (apoptosis-inducing factor) (PDCD8
NM_145813	Homo sapiens programmed cell death 8 (apoptosis-inducing factor) (PDCD8
NM_145814	Homo sapiens calcium channel, voltage-dependent, gamma subunit 6 (CACI
NM_145815	Homo sapiens calcium channel, voltage-dependent, gamma subunit 6 (CACI
NM_145818	Homo sapiens component of oligomeric golgi complex 4 (COG4), transcript v
NM_145858	Homo sapiens crystallin, zeta (quinone reductase)-like 1 (CRYZL1), transcrip
NM_145859	Homo sapiens programmed cell death 10 (PDCD10), transcript variant 2, mF
NM_145860	Homo sapiens programmed cell death 10 (PDCD10), transcript variant 3, mF
NM_145861	Homo sapiens EDAR-associated death domain (EDARADD), transcript varia
NM_145862	Homo sapiens CHK2 checkpoint homolog (S. pombe) (CHEK2), transcript va
NM_145863	Homo sapiens ankyrin repeat and SOCS box-containing 3 (ASB3), transcript
NM_145864	Homo sapiens kallikrein 3, (prostate specific antigen) (KLK3), transcript varia
NM_145865	Homo sapiens hypothetical protein FLJ38819 (FLJ38819), mRNA
NM_145867	Homo sapiens leukotriene C4 synthase (LTC4S), transcript variant 1, mRNA
NM_145868	Homo sapiens annexin A11 (ANXA11), transcript variant b, mRNA
NM_145869	Homo sapiens annexin A11 (ANXA11), transcript variant c, mRNA
NM 145870	Homo sapiens glutathione transferase zeta 1 (maleylacetoacetate isomerase
NM 145871	Homo sapiens glutathione transferase zeta 1 (maleylacetoacetate isomerase
NM_145872	Homo sapiens ankyrin repeat and SOCS box-containing 4 (ASB4), transcript
NM_145886	Homo sapiens leucine-rich repeats and death domain containing (LRDD), tra
NM 145887	Homo sapiens leucine-rich repeats and death domain containing (LRDD), tra
NM_145888	Homo sapiens kallikrein 10 (KLK10), transcript variant 2, mRNA
NM 145891	Homo sapiens ataxin 2-binding protein 1 (A2BP1), transcript variant 1, mRN/
NM_145892	Homo sapiens ataxin 2-binding protein 1 (A2BP1), transcript variant 2, mRN/
NM 145893	Homo sapiens ataxin 2-binding protein 1 (A2BP1), transcript variant 3, mRN/
NM_145894	Homo sapiens kallikrein 12 (KLK12), transcript variant 2, mRNA
NM 145895	Homo sapiens kallikrein 12 (KLK12), transcript variant 3, mRNA
NM 145896	Homo sapiens prefoldin 5 (PFDN5), transcript variant 2, mRNA
NM 145897	Homo sapiens prefoldin 5 (PFDN5), transcript variant 3, mRNA
NM 145898	Homo sapiens chemokine (C-C motif) ligand 23 (CCL23), transcript variant C
NM_145899	Homo sapiens high mobility group AT-hook 1 (HMGA1), transcript variant 1, 1
NM 145901	Homo sapiens high mobility group AT-hook 1 (HMGA1), transcript variant 3, I
NM_145902	Homo sapiens high mobility group AT-hook 1 (HMGA1), transcript variant 4, 1
NM 145903	Homo sapiens high mobility group AT-hook 1 (HMGA1), transcript variant 5,
NM 145904	Homo sapiens high mobility group AT-hook 1 (HMGA1), transcript variant 6,
NM 145905	Homo sapiens high mobility group AT-hook 1 (HMGA1), transcript variant 7,
NM 145906	Homo sapiens RIO kinase 3 (yeast) (RIOK3), transcript variant 2, mRNA
NM 145909	Homo sapiens zinc finger protein 323 (ZNF323), mRNA
NM 145910	Homo sapiens NIMA (never in mitosis gene a)- related kinase 11 (NEK11), m
NM_145911	Homo sapiens zinc finger protein 23 (KOX 16) (ZNF23), mRNA
NM_145912	Homo sapiens NFAT activation molecule 1 (NFAM1), mRNA
NM_145913	Homo sapiens solute carrier family 5 (iodide transporter), member 8 (SLC5A)
NM 145914	Homo sapiens zinc finger protein 38 (ZNF38), mRNA
NM_145918	Homo sapiens cathepsin L (CTSL), transcript variant 2, mRNA
NM 146387	Homo sapiens mitochondrial ribosomal protein L4 (MRPL4), nuclear gene en
NM_146388	Homo sapiens mitochondrial ribosomal protein L4 (MRPL4), nuclear gene en
NM 146421	Homo sapiens glutathione S-transferase M1 (GSTM1), transcript variant 2, m
NM_147127	Homo sapiens Ellis van Creveld syndrome 2 (limbin) (EVC2), mRNA
NM_147128	Homo sapiens zinc and ring finger 2 (ZNRF2), mRNA
NM_147129	Homo sapiens hypothetical protein LOC259173 (FLJ36525), transcript variar
NM_147130	Homo sapiens natural cytotoxicity triggering receptor 3 (NCR3), mRNA
NM_147131	Homo sapiens galactose-1-phosphate uridylyltransferase (GALT), transcript
NM_147132	Homo sapiens galactose-1-phosphate uridylyltransferase (GALT), transcript
NM 147133	Homo sapiens nuclear transcription factor, X-box binding 1 (NFX1), transcrip
NM_147134	Homo sapiens nuclear transcription factor, X-box binding 1 (NFX1), transcrip

NM_147147	Homo sapiens blood vesse I epicardial substance (BVES), transcript variant E
NM_147148	Homo sapiens glutathione S-transferase M4 (GSTM4), transcript variant 2, m
NM_147149	Homo sapiens glutathione S-transferase M4 (GSTM4), transcript variant 3, m
NM_147150	Homo sapiens A kinase (PRKA) anchor protein 2 (AKAP2), transcript variant
NM 147152	Homo sapiens intersectin 2 (ITSN2), transcript variant 2, mRNA
NM_147156	Homo sapiens transmembrane protein 23 (TMEM23), mRNA
NM_147157	Homo sapiens opioid receptor, sigma 1 (OPRS1), transcript variant 2, mRNA
NM_147158	Homo sapiens opioid receptor, sigma 1 (OPRS1), transcript variant 3, mRNA
NM_147159	Homo sapiens opioid receptor, sigma 1 (OPRS1), transcript variant 4, mRNA
NM 147160	Homo sapiens opioid receptor, sigma 1 (OPRS1), transcript variant 5, mRNA
NM_147161	Homo sapiens thioesterase, adipose associated (THEA), transcript variant 2,
NM 147162	Homo sapiens interleukin 1 1 receptor, alpha (IL11RA), transcript variant 2, m
NM_147164	Homo sapiens ciliary neuro trophic factor receptor (CNTFR), transcript varian
NM 147166	Homo sapiens A kinase (PRKA) anchor protein (yotiao) 9 (AKAP9), transcrip
NM_147168	Homo sapiens chromosome 9 open reading frame 24 (C9orf24), transcript va
NM 147169	Homo sapiens chromosome 9 open reading frame 24 (C9orf24), transcript va
NM 147171	Homo sapiens A kinase (PRKA) anchor protein (yotiao) 9 (AKAP9), transcrip
NM 147172	Homo sapiens nudix (nucleoside diphosphate linked moiety X)-type motif 2 (I
NM 147173	Homo sapiens nudix (nucleoside diphosphate linked moiety X)-type motif 2 (I
NM 147174	Homo sapiens heparan sulfate 6-O-sulfotransferase 2 (HS6ST2), mRNA
NM 147175	Homo sapiens heparan sulfate 6-O-sulfotransferase 2 (HS6ST2), transcript v
NM_147180	Homo sapiens protein phosphatase 3 (formerly 2B), regulatory subunit B, 19
NM 147181	Homo sapiens Kv channel interacting protein 4 (KCNIP4), transcript variant 2
NM_147182	Homo sapiens Kv channel interacting protein 4 (KCNIP4), transcript variant 3
NM 147183	Homo sapiens Kv channel interacting protein 4 (KCNIP4), transcript variant 4
NM_147184	Homo sapiens tumor protein p53 inducible protein 3 (TP53l3), transcript varia
NM 147185	Homo sapiens A kinase (PRKA) anchor protein (yotiao) 9 (AKAP9), transcrip
NM_147187	Homo sapiens tumor necro sis factor receptor superfamily, member 10b (TNF
NM 147188	Homo sapiens F-box protein 22 (FBXO22), transcript variant 1, mRNA
NM 147189	Homo sapiens hypothetical protein MGC39325 (MGC39325), mRNA
NM_147190	Homo sapiens LAG1 longe vity assurance homolog 5 (S. cerevisiae) (LASS5)
NM_147191	Homo sapiens matrix meta lloproteinase 21 (MMP21), mRNA
NM_147192	Homo sapiens diencephalon/mesencephalon homeobox 1 (DMBX1), transcri
NM_147193	Homo sapiens GLIS family zinc finger 1 (GLIS1), mRNA
NM_147194	Homo sapiens hypothetica protein MGC35361 (MGC35361), mRNA
NM_147195	Homo sapiens FLJ35740 p rotein (FLJ35740), mRNA
NM_147196	Homo sapiens transmembrane inner ear (TMIE), mRNA
NM_147197	Homo sapiens WAP four-d isulfide core domain 11 (WFDC11), mRNA
NM_147198	Homo sapiens WAP four-d isulfide core domain 9 (WFDC9), mRNA
NM_147199	Homo sapiens G protein-co-upled receptor MRGX1 (MRGX1), mRNA
NM_147200	Homo sapiens chromosom e 6 open reading frame 4 (C6orf4), transcript varia
NM_147202	Homo sapiens chromosom e 9 open reading frame 25 (C9orf25), mRNA
NM_147203	Homo sapiens fibrinogen-li ke 1 (FGL1), transcript variant 2, mRNA
NM_147204	Homo sapiens transient receptor potential cation channel, subfamily V, mem
NM_147223	Homo sapiens nuclear receptor coactivator 1 (NCOA1), transcript variant 2, r
NM_147233	Homo sapiens nuclear receptor coactivator 1 (NCOA1), transcript variant 3, r
NM_147686	Homo sapiens chromosom e 6 open reading frame 4 (C6orf4), transcript varia
NM_147777	Homo sapiens sorting nexin 15 (SNX15), transcript variant B, mRNA
NM_147780	Homo sapiens cathepsin B (CTSB), transcript variant 2, mRNA
NM_147781	Homo sapiens cathepsin B (CTSB), transcript variant 3, mRNA
NM_147782	Homo sapiens cathepsin B (CTSB), transcript variant 4, mRNA
NM_147783	Homo sapiens cathepsin B (CTSB), transcript variant 5, mRNA
NM_148169	Homo sapiens F-box protein 17 (FBXO17), transcript variant 1, mRNA
NM_148170	Homo sapiens cathepsin C (CTSC), transcript variant 2, mRNA
NM_148171	Homo sapiens ubiquitin as sociated protein 2 (UBAP2), transcript variant 3, m
NM_148172	Homo sapiens phosphatidylethanolamine N-methyltransferase (PEMT), nucle
NM_148173	Homo sapiens phosphatidylethanolamine N-methyltransferase (PEMT), nucle

NM_148174	Homo sapiens ornithine decarboxylase antizyme inhibitor (OAZIN), transcript
NM_148175	Homo sapiens peptidylprolyl isomerase (cyclophilin)-like 2 (PPIL2), transcript
NM_148176	Homo sapiens peptidylprolyl isomerase (cyclophilin)-like 2 (PPIL2), transcript
NM_148177	Homo sapiens F-box protein 32 (FBXO32), transcript variant 2, mRNA
NM_148178	Homo sapiens chromosome 9 open reading frame 23 (C9orf23), transcript ve
NM 148179	Homo sapiens chromosome 9 open reading frame 23 (C9orf23), transcript va
NM_148414	Homo sapiens ataxin 2 related protein (A2LP), transcript variant C, mRNA
NM 148415	Homo sapiens ataxin 2 related protein (A2LP), transcript variant D, mRNA
NM 148416	Homo sapiens ataxin 2 related protein (A2LP), transcript variant E, mRNA
NM 148570	Homo sapiens mitochondrial ribosomal protein L27 (MRPL27), nuclear gene
NM 148571	Homo sapiens mitochondrial ribosomal protein L27 (MRPL27), nuclear gene
NM 148672	Homo sapiens chemokine (C-C motif) ligand 28 (CCL28), transcript variant 2
NM 148674	Homo sapiens SMC1 structural maintenance of chromosomes 1-like 2 (yeast
NM 148675	Homo sapiens Down syndrome critical region gene 9 (DSCR9), mRNA
NM_148676	Homo sapiens Down syndrome critical region gene 10 (DSCR10), mRNA
NM 148842	Homo sapiens Williams-Beuren syndrome chromosome region 16 (WBSCR1
NM 148886	Homo sapiens Smith-Magenis syndrome chromosome region, candidate 7 (\$
NM 148887	Homo sapiens mitochondrial ribosomal protein L10 (MRPL10), nuclear gene
NM 148888	Homo sapiens chemokine (C-C motif) ligand 25 (CCL25), transcript variant 2
NM 148894	Homo sapiens family with sequence similarity 44, member A (FAM44A), mRt
NM 148896	Homo sapiens pre-proneuropeptide B (NPB), mRNA
NM_148897	Homo sapiens orphan short-chain dehydrogenase / reductase (SDR-O), mRI
NM 148898	Homo sapiens forkhead box P2 (FOXP2), transcript variant 2, mRNA
NM 148899	Homo sapiens forkhead box P2 (FOXP2), transcript variant 3, mRNA
NM 148900	Homo sapiens forkhead box P2 (FOXP2), transcript variant 4, mRNA
NM 148901	Homo sapiens tumor necrosis factor receptor superfamily, member 18 (TNFF
_	Homo sapiens tumor necrosis factor receptor superfamily, member 18 (TNFF
NM_148902 NM 148903	Homo sapiens GREB1 protein (GREB1), transcript variant c, mRNA
_	Homo sapiens oxysterol binding protein-like 9 (OSBPL9), transcript variant 1
NM_148904 NM_148905	Homo sapiens oxysterol binding protein-like 9 (OSBPL9), transcript variant 2
_	Homo sapiens oxysterol binding protein-like 9 (OSBPL9), transcript variant 3
NM_148906 NM 148907	Homo sapiens oxysterol binding protein-like 9 (OSBPL9), transcript variant 4
_	Homo sapiens oxysterol binding protein-like 9 (OSBPL9), transcript variant 5
NM_148908 NM 148909	Homo sapiens oxysterol binding protein-like 9 (OSBPL9), transcript variant 7
_	Homo sapiens toll-interleukin 1 receptor (TIR) domain containing adaptor pro
NM_148910	
NM_148911 NM 148912	Homo sapiens CHRNA7 (cholinergic receptor, nicotinic, alpha polypeptide 7, Homo sapiens Williams Beuren syndrome chromosome region 21 (WBSCR2
_	
NM_148913	Homo sapiens Williams Beuren syndrome chromosome region 21 (WBSCR2
NM_148914	Homo sapiens Williams Beuren syndrome chromosome region 21 (WBSCR2
NM_148915	Homo sapiens Williams Beuren syndrome chromosome region 21 (WBSCR2
NM_148916	Homo sapiens Williams Beuren syndrome chromosome region 21 (WBSCR2
NM_148918	Homo sapiens serine hydroxymethyltransferase 1 (soluble) (SHMT1), transcr
NM_148919	Homo sapiens proteasome (prosome, macropain) subunit, beta type, 8 (large
NM_148920	Homo sapiens phosphatidylinositol glycan, class Q (PIGQ), transcript variant
NM_148921	Homo sapiens epsin 2 (EPN2), transcript variant 1, mRNA
NM_148923	Homo sapiens cytochrome b-5 (CYB5), mRNA
NM_148936	
NM_148954	
NM_148955	
NM_148956	· · · · · · · · · · · · · · · · · · ·
NM_148957	
NM_148959	
NM_148960	
NM_148961	Homo sapiens oto spiralin (OTOS), mRNA
NM_148962	
NM_148963	
NM_148964	Homo conjone cornoncin H (LLINE) transcript Variant V mRNA

NM_148965	Homo sapiens tumor necrosis factor receptor superfamily, member 25 (TNFF
NM_148966	Homo sapiens tumor necrosis factor receptor superfamily, member 25 (TNFF
NM_148967	Homo sapiens tumor necrosis factor receptor superfamily, member 25 (TNFF
NM_148968	Homo sapiens tumor necrosis factor receptor superfamily, member 25 (TNFF
NM 148969	Homo sapiens tumor necrosis factor receptor superfamily, member 25 (TNFF
NM_148970	Homo sapiens tumor necrosis factor receptor superfamily, member 25 (TNFF
NM_148971	Homo sapiens tumor necrosis factor receptor superfamily, member 25 (TNFF
NM 148972	Homo sapiens tumor necrosis factor receptor superfamily, member 25 (TNFF
NM 148973	Homo sapiens tumor necrosis factor receptor superfamily, member 25 (TNFF
NM 148974	Homo sapiens tumor necrosis factor receptor superfamily, member 25 (TNFF
NM 148975	Homo sapiens membrane-spanning 4-domains, subfamily A, member 4 (MS
NM_148976	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 1 (PS
NM_148977	Homo sapiens pantothenate kinase 1 (PANK1), transcript variant alpha, mRt
NM 148978	Homo sapiens pantothenate kinase 1 (PANK1), transcript variant beta, mRN ₁
NM 148979	Homo sapiens cathepsin H (CTSH), transcript variant 2, mRNA
NM 148980	Homo sapiens Williams Beuren syndrome chromosome region 20C (WBSCF
NM 149379	Homo sapiens Williams Beuren syndrome chromosome region 20C (WBSCF
NM 152132	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 3 (PS
NM 152133	Homo sapiens proteasone (prosone, macropairi) sabuliti, apria type, 3 (r Si
NM 152219	Homo sapiens receil activation of rase activating protein (TAGAP), transcription sapiens gap junction protein, chi 1, 31.9kDa (connexin 31.9) (GJC1), r
NM 152221	
NM_152222	Homo sapiens casein kinase 1, epsilon (CSNK1E), transcript variant 1, mRN Homo sapiens tumor necrosis factor receptor superfamily, member 19-like (T
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NM_152223	Homo sapiens protein phosphatase, EF hand calcium-binding domain 1 (PPI
NM_152224	Homo sapiens protein phosphatase, EF hand calcium-binding domain 1 (PPI
NM_152225	Homo sapiens protein phosphatase, EF hand calcium-binding domain 1 (PPI
NM_152226	Homo sapiens protein phosphatase, EF hand calcium-binding domain 1 (PPI
NM_152227	Homo sapiens sorting nexin 5 (SNX5), transcript variant 1, mRNA
NM_152230	Homo sapiens inositol polypho sphate multikinase (IPMK), mRNA
NM_152232	Homo sapiens taste receptor, type 1, member 2 (TAS1R2), mRNA
NM_152233	Homo sapiens sorting nexin 6 (SNX6), transcript variant 2, mRNA
NM_152235	Homo sapiens splicing factor, arginine/serine-rich 8 (suppressor-of-white-apr
NM_152236	Homo sapiens growth arrest-specific 2 like 1 (GAS2L1), transcript variant 2, I
NM_152237	Homo sapiens growth arrest-specific 2 like 1 (GAS2L1), transcript variant 3, I
NM_152238	Homo sapiens sorting nexin 7 (SNX7), transcript variant 2, mRNA
NM_152240	Homo sapiens p53 target zinc finger protein (WIG1), transcript variant 2, mR
NM_152243	Homo sapiens CDC42 effector protein (Rho GTPase binding) 1 (CDC42EP1)
NM_152244	Homo sapiens sorting nexin 11 (SNX11), transcript variant 1, mRNA
NM_152245	Homo sapiens carnitine palmitoyltransferase 1B (muscle) (CPT1B), nuclear (
NM_152246	Homo sapiens carnitine palmitoyltransferase 1B (muscle) (CPT1B), nuclear (
NM_152247	Homo sapiens carnitine palmitoyltransferase 1B (muscle) (CPT1B), nuclear (
NM_152250	Homo sapiens defensin, beta 105 (DEFB105), mRNA
NM_152251	Homo sapiens defensin, beta 106 (DEFB106), mRNA
NM_152253	Homo sapiens choline kinase beta (CHKB), transcript variant 2, mRNA
NM_152255	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 7 (PS
NM_152257	Homo sapiens KIAA0889 protein (KIAA0889), mRNA
NM_152259	Homo sapiens leucine-rich repeat kinase 1 (MGC45866), mRNA
NM_152260	Homo sapiens chromosome 15 open reading frame 19 (C15orf19), mRNA
NM_152261	Homo sapiens hypothetical protein MGC17943 (MGC17943), mRNA
NM_152262	Homo sapiens zinc finger protein 439 (ZNF439), mRNA
NM_152263	Homo sapiens tropomyosin 3 (TPM3), mRNA
NM_152264	Homo sapiens solute carrier family 39 (zinc transporter), member 13 (SLC39
NM_152266	Homo sapiens hypothetical protein MGC32020 (MGC32020), mRNA
NM_152267	Homo sapiens hypothetical protein FLJ38628 (FLJ38628), mRNA
NM_152268	Homo sapiens similar to tRNA synthetase class II (DKFZp727A071), mRNA
NM_152269	Homo sapiens hypothetical protein FLJ38663 (FLJ38663), mRNA
NM_152270	Homo sapiens hypothetical protein FLJ34922 (FLJ34922), mRNA
NM_152271	Homo sapiens hypothetical protein FLJ23749 (FLJ23749), mRNA
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NM_152272	Homo sapiens hypothetical protein MGC29816 (MGC29816), mRNA
NM_152274	Homo sapiens hypothetical protein MGC29729 (MGC29729), mRNA
NM_152275	Homo sapiens hypothetical protein FLJ13946 (FLJ13946), mRNA
NM_152277	Homo sapiens dendritic cell-derived ubiquitin-like protein (DC-UbP), mRNA
NM_152278	Homo sapiens hypothetical protein MGC23947 (MGC23947), mRNA
NM_152279	Homo sapiens zinc finger protein 585B (ZNF585B), mRNA
NM_152280	Homo sapiens synaptotagmin XI (SYT11), mRNA
NM_152281	Homo sapiens NTKL-binding protein 1 (FLJ11752), mRNA
NM_152282	Homo sapiens hypothetical protein FLJ23751 (FLJ23751), mRNA
NM_152283	Homo sapiens zinc finger protein 62 homolog (mouse) (ZFP62), mRNA
NM_152284	Homo sapiens Snf7 homologue associated with Alix 3 (Shax3), mRNA
NM_152285	Homo sapiens arrestin domain containing 1 (ARRDC1), mRNA
NM_152286	Homo sapiens chromosome 9 open reading frame 111 (C9orf111), mRNA
NM_152287	Homo sapiens zinc finger protein 276 homolog (mouse) (ZFP276), mRNA
NM_152288	Homo sapiens hypothetical protein MGC13024 (MGC13024), mRNA
NM_152289	Homo sapiens zinc finger protein 561 (ZNF561), mRNA
NM_152290 NM 152291	Homo sapiens hypothetical protein MGC35194 (MGC35194), mRNA Homo sapiens mucin 7, salivary (MUC7), mRNA
NM_152291	Homo sapiens RNA (guanine-9-) methyltransferase domain containing 2 (RG
NM 152295	Homo sapiens threonyl-tRNA synthetase (TARS), mRNA
NM_152296	Homo sapiens are synthesis (TARO), micro- Homo sapiens ATPase, Na+/K+ transporting, alpha 3 polypeptide (ATP1A3),
NM 152298	Homo sapiens nuclear autoantigenic sperm protein (histone-binding) (NASP)
NM_152299	Homo sapiens hypothetical protein 384D8_6 (384D8-2), mRNA
NM 152300	Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 52 (DDX52), transc
NM_152301	Homo sapiens PP784 protein (PP784), transcript variant 1, mRNA
NM_152302	Homo sapiens chromosome 20 open reading frame 158 (C20orf158), mRNA
NM_152303	Homo sapiens zinc finger protein 554 (ZNF554), mRNA
NM_152304	Homo sapiens hypothetical protein MGC45806 (MGC45806), mRNA
NM_152305	Homo sapiens x 010 protein (MDS010), mRNA
NM_152306	Homo sapiens ubiquitin-like, containing PHD and RING finger domains, 2 (UI
NM_152307	Homo sapiens hypothetical protein FLJ40452 (FLJ40452), mRNA
NM_152308	Homo sapiens hypothetical protein MGC24665 (MGC24665), mRNA
NM_152309	Homo sapiens phosphoinositide-3-kinase adaptor protein 1 (PIK3AP1), mRN
NM_152310	Homo sapiens elongation of very long chain fatty acids (FEN1/Elo2, SUR4/El
NM_152311	Homo sapiens hypothetical protein MGC32871 (MGC32871), mRNA
NM_152312	Homo sapiens glycosyltransferase-like 1B (GYLTL1B), mRNA
NM_152313	Homo sapiens solute carrier family 36 (proton/amino acid symporter), member large solute carrier family 36 (proton/amino acid symporter), member large solute carrier family 36 (proton/amino acid symporter), member large solute carrier family 36 (proton/amino acid symporter), member large solute carrier family 36 (proton/amino acid symporter), member large solute carrier family 36 (proton/amino acid symporter), member large solute carrier family 36 (proton/amino acid symporter), member large solute carrier family 36 (proton/amino acid symporter), member large solute carrier family 36 (proton/amino acid symporter), member large solute carrier family 36 (proton/amino acid symporter), member large solute carrier family 36 (proton/amino acid symporter), member large solute carrier family 36 (proton/amino acid symporter), member large solute carrier family 36 (proton/amino acid symporter), member large solute carrier family 36 (proton/amino acid symporter), member large solute carrier family 36 (proton/amino acid symporter) member large solute carrier family 36 (proton/amino acid symporter) member large solute carrier family 36 (proton/amino acid symporter) member large solute carrier family 36 (proton/amino acid symporter) member large solute carrier family 36 (proton/amino acid symporter) member large solute carrier family acid symporter family a
NM_152314	Homo sapiens hypothetical protein MGC34830 (MGC34830), mRNA
NM_152315 NM_152316	Homo sapiens hypothetical protein MGC34290 (MGC34290), mRNA Homo sapiens hypothetical protein FLJ38968 (FLJ38968), mRNA
NM_152317	Homo sapiens hypothetical protein reasonable (1 2335500), mrtta
NM_152318	Homo sapiens bell domain containing 4 (bell 504), mixton Homo sapiens hypothetical protein MGC40397 (MGC40397), mRNA
NM_152319	Homo sapiens hypothetical protein MGC35033 (MGC35033), mRNA
NM 152320	Homo sapiens hypothetical protein FLJ31295 (FLJ31295), mRNA
NM_152321	Homo sapiens hypothetical protein FLJ32115 (FLJ32115), mRNA
NM 152322	Homo sapiens BTB (POZ) domain containing 11 (BTBD11), mRNA
NM_152323	Homo sapiens Spi-C transcription factor (Spi-1/PU.1 related) (SPIC), mRNA
NM 152324	Homo sapiens hypothetical protein MGC35169 (MGC35169), mRNA
NM_152325	Homo sapiens hypothetical protein MGC40178 (MGC40178), mRNA
NM_152326	Homo sapiens ankyrin repeat domain 9 (ANKRD9), mRNA
NM_152327	Homo sapiens adenylate kina se 7 (AK7), mRNA
NM_152328	Homo sapiens adenylosuccinate synthase like 1 (ADSSL1), transcript variant
NM_152329	Homo sapiens peptidylprolyl isomerase (cyclophilin) like 5 (PPIL5), transcript
NM_152330	Homo sapiens chromosome 14 open reading frame 31 (C14orf31), mRNA
NM_152331	Homo sapiens peroxisomal acyl-CoA thioesterase 2B (PTE2B), mRNA
NM_152332	Homo sapiens membrane targeting (tandem) C2 domain containing 1 (MTAC
NM_152333	Homo sapiens solute carrier family 25, member 29 (SLC25A29), mRNA

NM_152334	Homo sapiens FLJ25005 protein (FLJ25005), mRNA
NM_152335	Homo sapiens chromosome 15 open reading frame 27 (C15orf27), mRNA
NM_152336	Homo sapiens hypothetical protein FLJ32310 (FLJ32310), mRNA
NM_152337	Homo sapiens hypothetical protein FLJ32702 (FLJ32702), mRNA
NM_152338	Homo sapiens zymogen granule protein 16 (ZG16), mRNA
NM_152339	Homo sapiens hypothetical protein MGC26885 (MGC26885), mRNA
NM_152340	Homo sapiens hypothetical protein FLJ39075 (FLJ39075), mRNA
NM_152341	Homo sapiens progestin and adipoQ receptor family member IV (PAQR4), m
NM_152342	Homo sapiens chromodomain protein, Y-like 2 (CDYL2), mRNA
NM_152343	Homo sapiens hypothetical protein FLJ25414 (FLJ25414), mRNA
NM_152344	Homo sapiens hypothetical protein FLJ30656 (FLJ30656), mRNA
NM_152345	Homo sapiens hypothetical protein FLJ25555 (FLJ25555), mRNA
NM_152346	Homo sapiens hypothetical protein MGC34680 (MGC34680), mRNA
NM_152347	Homo sapiens hypothetical protein FLJ40342 (FLJ40342), mRNA
NM_152348	Homo sapiens hypothetical protein FLJ33817 (FLJ33817), mRNA
NM 152349	Homo sapiens hypothetical protein MGC45562 (MGC45562), mRNA
NM 152350	Homo sapiens hypothetical protein MGC40157 (MGC40157), mRNA
NM 152351	Homo sapiens solute carrier family 5 (sodium/glucose cotransporter), membe
NM_152352	Homo sapiens chromosome 18 open reading frame 19 (C18orf19), mRNA
NM 152353	Homo sapiens hypothetical protein MGC33839 (MGC33839), mRNA
NM 152354	Homo sapiens zinc finger protein 285 (ZNF285), mRNA
NM 152355	Homo sapiens zinc finger protein 441 (ZNF441), mRNA
NM 152356	Homo sapiens zinc finger protein 491 (ZNF491), mRNA
NM 152357	Homo sapiens zinc finger protein 440 (ZNF440), mRNA
NM 152358	Homo sapiens hypothetical protein MGC33947 (MGC33947), mRNA
NM_152359	Homo sapiens carnitine palmitoyltransferase 1C (CPT1C), mRNA
NM_152360	Homo sapiens zinc finger protein 573 (ZNF573), mRNA
NM_152361	Homo sapiens hypothetical protein FLJ38944 (FLJ38944), mRNA
NM_152362	Homo sapiens hypothetical protein MGC17791 (MGC17791), mRNA
NM_152363	Homo sapiens hypothetical protein FLJ39369 (FLJ39369), mRNA
NM 152365	Homo sapiens hypothetical protein FLJ34633 (FLJ34633), mRNA
NM_152366	Homo sapiens hypothetical protein MGC33338 (MGC33338), mRNA
NM 152367	Homo sapiens hypothetical protein FLJ38716 (FLJ38716), mRNA
NM 152369	Homo sapiens hypothetical protein MGC45474 (MGC45474), mRNA
NM_152371	Homo sapiens hypothetical protein MGC26818 (MGC26818), mRNA
NM 152372	Homo sapiens myomesin family, member 3 (MYOM3), mRNA
NM_152373	Homo sapiens hypothetical protein MGC27466 (MGC27466), mRNA
NM_152374	Homo sapiens hypothetical protein FLJ38984 (FLJ38984), mRNA
NM_152375	Homo sapiens hypothetical protein FLJ38753 (FLJ38753), mRNA
NM 152376	Homo sapiens UBX domain containing 3 (UBXD3), mRNA
NM_152377	Homo sapiens hypothetical protein MGC34837 (MGC34837), mRNA
NM_152378	Homo sapiens hypothetical protein FLJ31052 (FLJ31052), mRNA
NM_152379	Homo sapiens hypothetical protein DKFZp547B1713 (DKFZp547B1713), mF
NM 152382	Homo sapiens hypothetical protein FLJ37953 (FLJ37953), mRNA
NM_152383	Homo sapiens hypothetical protein MGC42174 (MGC42174), mRNA
NM 152384	Homo sapiens Bardet-Biedl syndrome 5 (BBS5), mRNA
NM_152385	Homo sapiens bardet-bled syndrome o (bbco), mittak Homo sapiens hypothetical protein FLJ31438 (FLJ31438), mRNA
NM_152386	Homo sapiens rypothetical protein 1255 1456 (1256 1456), mixiva
NM_152387	Homo sapiens hypothetical protein FLJ31322 (FLJ31322), mRNA
NM_152388	Homo sapiens amyotrophic lateral sclerosis 2 (juvenile) chromosome region,
NM 152389	Homo sapiens hypothetical protein MGC35338 (MGC35338), mRNA
NM 152399	Homo sapiens hypothetical protein MGC33926 (MGC33926), mRNA
NM_152390	Homo sapiens chromosome 2 open reading frame 22 (C2orf22), mRNA
NM 152391	Homo sapiens AHA1, activator of heat shock 90kDa protein ATPase homolog
NM_152393	Homo sapiens kelch repeat and BTB (POZ) domain containing 5 (KBTBD5),
NM 152394	Homo saplens hypothetical protein MGC39662 (MGC39662), mRNA
NM_152394	Homo sapiens hypothetical protein FLJ31265 (FLJ31265), mRNA
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NM_152396	Homo sapiens hypothetical protein MGC24132 (MGC24132), mRNA
NM_152397	Homo sapiens hypothetical protein MGC39725 (MGC39725), mRNA
NM_152398	Homo sapiens hypothetical protein MGC45416 (MGC45416), mRNA
NM_152399	Homo sapiens hypothetical protein FLJ3O834 (FLJ30834), mRNA
NM_152400	Homo sapiens hypothetical protein FLJ39370 (FLJ39370), mRNA
NM_152401	Homo sapiens phosducin-like 2 (PDCL2), mRNA
NM_152402	Homo sapiens translocation associated membrane protein 1-like 1 (TRAM1L
NM 152403	Homo sapiens hypothetical protein FLJ39155 (FLJ39155), transcript variant
NM_152404	Homo sapiens hypothetical protein FLJ34658 (FLJ34658), mRNA
NM_152405	Homo sapiens junction-mediating and regulatory protein (JMY), mRNA
NM_152407	Homo sapiens GrpE-like 2, mitochondria1 (E. coli) (GRPEL2), mRNA
NM_152408	Homo sapiens hypothetical protein FLJ35779 (FLJ35779), mRNA
NM_152409	Homo sapiens hypothetical protein FLJ37562 (FLJ37562), mRNA
NM_152410	Homo sapiens PARK2 co-regulated (PACRG), mRNA
NM_152411	Homo sapiens hypothetical protein DKFZp762I137 (DKFZp762I137), mRNA
NM_152412	Homo sapiens zinc finger protein 572 (ZNF572), mRNA
NM_152413	Homo sapiens hypothetical protein MGC3 3309 (MGC33309), mRNA
NM_152414	Homo sapiens basic helix-loop-helix domain containing, class B, 5 (BHLHB5)
NM_152415	Homo sapiens hepatocellular carcinoma related protein 1 (FLJ32642), mRN/
NM_152416	Homo sapiens hypothetical protein MGC40214 (MGC40214), mRNA
NM_152417	Homo sapiens hypothetical protein FLJ32370 (FLJ32370), mRNA
NM_152418	Homo sapiens hypothetical protein FLJ35775 (FLJ35775), mRNA
NM_152420	Homo sapiens chromosome 9 open reading frame 41 (C9orf41), mRNA
NM_152421	Homo sapiens hypothetical protein MGC20262 (MGC20262), mRNA
NM_152422	Homo sapiens protein tyrosine phosphatase domain containing 1 (PTPDC1),
NM_152423	Homo saplens hypothetical protein FLJ33516 (FLJ33516), mRNA
NM_152424	Homo sapiens hypothetical protein FLJ39827 (FLJ39827), mRNA
NM_152425	Homo sapiens hypothetical protein FLJ40249 (FLJ40249), mRNA
NM_152427	Homo sapiens cofilin pseudogene 1 (CFLP1), mRNA
NM_152428	Homo sapiens FERM and PDZ domain containing 2 (FRMPD2), mRNA
NM_152429	Homo sapiens chromosome 10 open reading frame 13 (C10orf13), mRNA
NM_152430	Homo sapiens hypothetical protein MGC24137 (MGC24137), mRNA
NM_152431 NM_152433	Homo sapiens piwi-like 4 (Drosophila) (PIWIL4), mRNA Homo sapiens kelch repeat and BTB (POZ) domain containing 3 (KBTBD3),
NM_152434	Homo sapiens CWF19-like 2, cell cycle control (S. pombe) (CWF19L2), mR1
NM_152435	Homo sapiens own 19-like 2, can cycle control (c. pointe) (cwi 19-12), mixing Homo sapiens hypothetical protein MGC35366 (MGC35366), mRNA
NM_152436	
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	Homo sapiens hypothetical protein MGC39497 (MGC39497), mRNA
NM_152437 NM_152439	Homo sapiens hypothetical protein MGC39497 (MGC39497), mRNA Homo sapiens hypothetical protein DKFZp761B128 (DKFZp761B128), mRN
NM_152439	Homo sapiens hypothetical protein MGC39497 (MGC39497), mRNA Homo sapiens hypothetical protein DKFZp761B128 (DKFZp761B128), mRNA Homo sapiens vitelliform macular dystrophy 2-like 3 (VMD2L3), mRNA
NM_152439 NM_152440	Homo sapiens hypothetical protein MGC39497 (MGC39497), mRNA Homo sapiens hypothetical protein DKFZp761B128 (DKFZp761B128), mRNA Homo sapiens vitelliform macular dystrop hy 2-like 3 (VMD2L3), mRNA Homo sapiens hypothetical protein FLJ32549 (FLJ32549), mRNA
NM_152439 NM_152440 NM_152441	Homo sapiens hypothetical protein MGC39497 (MGC39497), mRNA Homo sapiens hypothetical protein DKFZp761B128 (DKFZp761B128), mRN, Homo sapiens vitelliform macular dystrop hy 2-like 3 (VMD2L3), mRNA Homo sapiens hypothetical protein FLJ32549 (FLJ32549), mRNA Homo sapiens F-box and leucine-rich repeat protein 14 (FBXL14), mRNA
NM_152439 NM_152440 NM_152441 NM_152442	Homo sapiens hypothetical protein MGC39497 (MGC39497), mRNA Homo sapiens hypothetical protein DKFZp761B128 (DKFZp761B128), mRNA Homo sapiens vitelliform macular dystrop hy 2-like 3 (VMD2L3), mRNA Homo sapiens hypothetical protein FLJ32549 (FLJ32549), mRNA Homo sapiens F-box and leucine-rich repeat protein 14 (FBXL14), mRNA Homo sapiens RAD9 homolog B (S. cerevisiae) (RAD9B), mRNA
NM_152439 NM_152440 NM_152441 NM_152442 NM_152443	Homo sapiens hypothetical protein MGC39497 (MGC39497), mRNA Homo sapiens hypothetical protein DKFZp761B128 (DKFZp761B128), mRN, Homo sapiens vitelliform macular dystrophy 2-like 3 (VMD2L3), mRNA Homo sapiens hypothetical protein FLJ32549 (FLJ32549), mRNA Homo sapiens F-box and leucine-rich repeat protein 14 (FBXL14), mRNA Homo sapiens RAD9 homolog B (S. cerevisiae) (RAD9B), mRNA Homo sapiens retinol dehydrogenase 12 (all-trans and 9-cis) (RDH12), mRN
NM_152439 NM_152440 NM_152441 NM_152442 NM_152443 NM_152444	Homo sapiens hypothetical protein MGC39497 (MGC39497), mRNA Homo sapiens hypothetical protein DKFZp761B128 (DKFZp761B128), mRN, Homo sapiens vitelliform macular dystrophy 2-like 3 (VMD2L3), mRNA Homo sapiens hypothetical protein FLJ32549 (FLJ32549), mRNA Homo sapiens F-box and leucine-rich repeat protein 14 (FBXL14), mRNA Homo sapiens RAD9 homolog B (S. cerevisiae) (RAD9B), mRNA Homo sapiens retinol dehydrogenase 12 (all-trans and 9-cis) (RDH12), mRN Homo sapiens zinc binding alcohol dehydrogenase, domain containing 1 (ZA
NM_152439 NM_152440 NM_152441 NM_152442 NM_152443 NM_152444 NM_152445	Homo sapiens hypothetical protein MGC39497 (MGC39497), mRNA Homo sapiens hypothetical protein DKFZp761B128 (DKFZp761B128), mRNA Homo sapiens vitelliform macular dystrop hy 2-like 3 (VMD2L3), mRNA Homo sapiens hypothetical protein FLJ32549 (FLJ32549), mRNA Homo sapiens F-box and leucine-rich repeat protein 14 (FBXL14), mRNA Homo sapiens RAD9 homolog B (S. cerevisiae) (RAD9B), mRNA Homo sapiens retinol dehydrogenase 12 (all-trans and 9-cis) (RDH12), mRN Homo sapiens zinc binding alcohol dehydrogenase, domain containing 1 (ZA Homo sapiens chromosome 14 open reading frame 44 (C14orf44), mRNA
NM_152439 NM_152440 NM_152441 NM_152442 NM_152443 NM_152444	Homo sapiens hypothetical protein MGC39497 (MGC39497), mRNA Homo sapiens hypothetical protein DKFZp761B128 (DKFZp761B128), mRNA Homo sapiens vitelliform macular dystrophy 2-like 3 (VMD2L3), mRNA Homo sapiens hypothetical protein FLJ32549 (FLJ32549), mRNA Homo sapiens F-box and leucine-rich repeat protein 14 (FBXL14), mRNA Homo sapiens RAD9 homolog B (S. cerevisiae) (RAD9B), mRNA Homo sapiens retinol dehydrogenase 12 (all-trans and 9-cis) (RDH12), mRN Homo sapiens zinc binding alcohol dehydrogenase, domain containing 1 (ZA Homo sapiens chromosome 14 open reacting frame 44 (C14orf44), mRNA Homo sapiens leucine rich repeat and fibronectin type III domain containing t
NM_152439 NM_152440 NM_152441 NM_152442 NM_152443 NM_152444 NM_152445 NM_152447 NM_152448	Homo sapiens hypothetical protein MGC39497 (MGC39497), mRNA Homo sapiens hypothetical protein DKFZp761B128 (DKFZp761B128), mRNA Homo sapiens vitelliform macular dystrop hy 2-like 3 (VMD2L3), mRNA Homo sapiens hypothetical protein FLJ32549 (FLJ32549), mRNA Homo sapiens F-box and leucine-rich repeat protein 14 (FBXL14), mRNA Homo sapiens RAD9 homolog B (S. cerevisiae) (RAD9B), mRNA Homo sapiens retinol dehydrogenase 12 (all-trans and 9-cis) (RDH12), mRN Homo sapiens zinc binding alcohol dehydrogenase, domain containing 1 (ZA Homo sapiens chromosome 14 open reading frame 44 (C14orf44), mRNA Homo sapiens leucine rich repeat and fibronectin type III domain containing t Homo sapiens hypothetical protein MGC33951 (MGC33951), mRNA
NM_152439 NM_152440 NM_152441 NM_152442 NM_152443 NM_152444 NM_152445 NM_152447	Homo sapiens hypothetical protein MGC39497 (MGC39497), mRNA Homo sapiens hypothetical protein DKFZp761B128 (DKFZp761B128), mRNA Homo sapiens vitelliform macular dystrophy 2-like 3 (VMD2L3), mRNA Homo sapiens hypothetical protein FLJ32549 (FLJ32549), mRNA Homo sapiens F-box and leucine-rich repeat protein 14 (FBXL14), mRNA Homo sapiens RAD9 homolog B (S. cerevisiae) (RAD9B), mRNA Homo sapiens retinol dehydrogenase 12 (all-trans and 9-cis) (RDH12), mRN Homo sapiens zinc binding alcohol dehydrogenase, domain containing 1 (ZA Homo sapiens chromosome 14 open reacting frame 44 (C14orf44), mRNA Homo sapiens leucine rich repeat and fibronectin type III domain containing t
NM_152439 NM_152440 NM_152441 NM_152442 NM_152443 NM_152444 NM_152445 NM_152447 NM_152448 NM_152449	Homo sapiens hypothetical protein MGC39497 (MGC39497), mRNA Homo sapiens hypothetical protein DKFZp761B128 (DKFZp761B128), mRNA Homo sapiens vitelliform macular dystrop hy 2-like 3 (VMD2L3), mRNA Homo sapiens hypothetical protein FLJ32549 (FLJ32549), mRNA Homo sapiens F-box and leucine-rich repeat protein 14 (FBXL14), mRNA Homo sapiens RAD9 homolog B (S. cerevisiae) (RAD9B), mRNA Homo sapiens retinol dehydrogenase 12 (all-trans and 9-cis) (RDH12), mRN Homo sapiens zinc binding alcohol dehydrogenase, domain containing 1 (ZA Homo sapiens chromosome 14 open reading frame 44 (C14orf44), mRNA Homo sapiens leucine rich repeat and fibronectin type III domain containing t Homo sapiens hypothetical protein MGC33951 (MGC33951), mRNA Homo sapiens hypothetical protein FLJ33008 (FLJ33008), mRNA
NM_152439 NM_152440 NM_152441 NM_152442 NM_152443 NM_152444 NM_152445 NM_152447 NM_152448 NM_152449 NM_152449	Homo sapiens hypothetical protein MGC39497 (MGC39497), mRNA Homo sapiens hypothetical protein DKFZp761B128 (DKFZp761B128), mRNA Homo sapiens vitelliform macular dystrop hy 2-like 3 (VMD2L3), mRNA Homo sapiens hypothetical protein FLJ32549 (FLJ32549), mRNA Homo sapiens F-box and leucine-rich repeat protein 14 (FBXL14), mRNA Homo sapiens RAD9 homolog B (S. cerevisiae) (RAD9B), mRNA Homo sapiens retinol dehydrogenase 12 (all-trans and 9-cis) (RDH12), mRN Homo sapiens zinc binding alcohol dehydrogenase, domain containing 1 (ZA Homo sapiens chromosome 14 open reading frame 44 (C14orf44), mRNA Homo sapiens leucine rich repeat and fibronectin type III domain containing t Homo sapiens hypothetical protein MGC33951 (MGC33951), mRNA Homo sapiens hypothetical protein FLJ33008 (FLJ33008), mRNA Homo sapiens GRINL1A complex upstream protein (Gup1), mRNA Homo sapiens hypothetical protein MGC35118 (MGC35118), mRNA
NM_152439 NM_152440 NM_152441 NM_152442 NM_152443 NM_152444 NM_152445 NM_152447 NM_152448 NM_152449 NM_152450 NM_152451 NM_152451 NM_152453 NM_152454	Homo sapiens hypothetical protein MGC39497 (MGC39497), mRNA Homo sapiens hypothetical protein DKFZp761B128 (DKFZp761B128), mRNA Homo sapiens vitelliform macular dystrop hy 2-like 3 (VMD2L3), mRNA Homo sapiens hypothetical protein FLJ32549 (FLJ32549), mRNA Homo sapiens F-box and leucine-rich repeat protein 14 (FBXL14), mRNA Homo sapiens RAD9 homolog B (S. cerevisiae) (RAD9B), mRNA Homo sapiens retinol dehydrogenase 12 (all-trans and 9-cis) (RDH12), mRN Homo sapiens zinc binding alcohol dehydrogenase, domain containing 1 (ZA Homo sapiens chromosome 14 open reading frame 44 (C14orf44), mRNA Homo sapiens leucine rich repeat and fibronectin type III domain containing t Homo sapiens hypothetical protein MGC33951 (MGC33951), mRNA Homo sapiens hypothetical protein FLJ33008 (FLJ33008), mRNA Homo sapiens GRINL1A complex upstream protein (Gup1), mRNA Homo sapiens hypothetical protein MGC35118 (MGC35118), mRNA Homo sapiens hypothetical protein FLJ31461 (FLJ31461), mRNA
NM_152439 NM_152440 NM_152441 NM_152442 NM_152443 NM_152444 NM_152445 NM_152447 NM_152448 NM_152449 NM_152450 NM_152451 NM_152451 NM_152453 NM_152454 NM_152455	Homo sapiens hypothetical protein MGC39497 (MGC39497), mRNA Homo sapiens hypothetical protein DKFZp761B128 (DKFZp761B128), mRN, Homo sapiens vitelliform macular dystrop hy 2-like 3 (VMD2L3), mRNA Homo sapiens hypothetical protein FLJ32549 (FLJ32549), mRNA Homo sapiens F-box and leucine-rich repeat protein 14 (FBXL14), mRNA Homo sapiens RAD9 homolog B (S. cerevisiae) (RAD9B), mRNA Homo sapiens retinol dehydrogenase 12 (all-trans and 9-cis) (RDH12), mRN Homo sapiens zinc binding alcohol dehydrogenase, domain containing 1 (ZA Homo sapiens chromosome 14 open reading frame 44 (C14orf44), mRNA Homo sapiens leucine rich repeat and fibronectin type III domain containing them sapiens hypothetical protein MGC33951 (MGC33951), mRNA Homo sapiens hypothetical protein MGC26690 (MGC26690), mRNA Homo sapiens GRINL1A complex upstream protein (Gup1), mRNA Homo sapiens hypothetical protein MGC35118 (MGC35118), mRNA Homo sapiens hypothetical protein FLJ31461 (FLJ31461), mRNA Homo sapiens hypothetical protein FLJ31461 (FLJ31461), mRNA Homo sapiens hypothetical protein FLJ315867 (FLJ35867), mRNA
NM_152439 NM_152440 NM_152441 NM_152442 NM_152443 NM_152445 NM_152447 NM_152448 NM_152449 NM_152450 NM_152451 NM_152451 NM_152453 NM_152454 NM_152455 NM_152456	Homo sapiens hypothetical protein MGC39497 (MGC39497), mRNA Homo sapiens hypothetical protein DKFZp761B128 (DKFZp761B128), mRN, Homo sapiens vitelliform macular dystrop hy 2-like 3 (VMD2L3), mRNA Homo sapiens hypothetical protein FLJ32549 (FLJ32549), mRNA Homo sapiens F-box and leucine-rich repeat protein 14 (FBXL14), mRNA Homo sapiens RAD9 homolog B (S. cerevisiae) (RAD9B), mRNA Homo sapiens retinol dehydrogenase 12 (all-trans and 9-cis) (RDH12), mRN Homo sapiens zinc binding alcohol dehydrogenase, domain containing 1 (ZA Homo sapiens chromosome 14 open reading frame 44 (C14orf44), mRNA Homo sapiens leucine rich repeat and fibronectin type III domain containing them sapiens hypothetical protein MGC33951 (MGC33951), mRNA Homo sapiens hypothetical protein FLJ33008 (FLJ33008), mRNA Homo sapiens GRINL1A complex upstream protein (Gup1), mRNA Homo sapiens hypothetical protein MGC35118 (MGC35118), mRNA Homo sapiens hypothetical protein FLJ31461 (FLJ31461), mRNA Homo sapiens hypothetical protein FLJ35867 (FLJ35867), mRNA Homo sapiens hypothetical protein MGC34647 (MGC34647), mRNA
NM_152439 NM_152440 NM_152441 NM_152442 NM_152443 NM_152444 NM_152445 NM_152447 NM_152449 NM_152450 NM_152451 NM_152451 NM_152453 NM_152454 NM_152455 NM_152456 NM_152456 NM_152456	Homo sapiens hypothetical protein MGC39497 (MGC39497), mRNA Homo sapiens hypothetical protein DKFZp761B128 (DKFZp761B128), mRNA Homo sapiens vitelliform macular dystrop hy 2-like 3 (VMD2L3), mRNA Homo sapiens hypothetical protein FLJ32549 (FLJ32549), mRNA Homo sapiens F-box and leucine-rich repeat protein 14 (FBXL14), mRNA Homo sapiens RAD9 homolog B (S. cerevisiae) (RAD9B), mRNA Homo sapiens retinol dehydrogenase 12 (all-trans and 9-cis) (RDH12), mRN Homo sapiens zinc binding alcohol dehydrogenase, domain containing 1 (ZA Homo sapiens chromosome 14 open reading frame 44 (C14orf44), mRNA Homo sapiens leucine rich repeat and fibronectin type III domain containing the Homo sapiens hypothetical protein MGC33951 (MGC33951), mRNA Homo sapiens hypothetical protein FLJ33008 (FLJ33008), mRNA Homo sapiens GRINL1A complex upstream protein (Gup1), mRNA Homo sapiens hypothetical protein MGC35118 (MGC35118), mRNA Homo sapiens hypothetical protein FLJ31461 (FLJ31461), mRNA Homo sapiens hypothetical protein FLJ35867 (FLJ35867), mRNA Homo sapiens hypothetical protein MGC34647 (MGC34647), mRNA Homo sapiens zinc finger protein 597 (ZNF597), mRNA
NM_152439 NM_152440 NM_152441 NM_152442 NM_152443 NM_152444 NM_152445 NM_152447 NM_152449 NM_152450 NM_152451 NM_152451 NM_152453 NM_152454 NM_152455 NM_152455 NM_152456 NM_152456 NM_152457 NM_152457	Homo sapiens hypothetical protein MGC39497 (MGC39497), mRNA Homo sapiens hypothetical protein DKFZp761B128 (DKFZp761B128), mRNA Homo sapiens vitelliform macular dystrop hy 2-like 3 (VMD2L3), mRNA Homo sapiens hypothetical protein FLJ32549 (FLJ32549), mRNA Homo sapiens F-box and leucine-rich repeat protein 14 (FBXL14), mRNA Homo sapiens RAD9 homolog B (S. cerevisiae) (RAD9B), mRNA Homo sapiens retinol dehydrogenase 12 (all-trans and 9-cis) (RDH12), mRN Homo sapiens zinc binding alcohol dehydrogenase, domain containing 1 (ZA Homo sapiens chromosome 14 open reading frame 44 (C14orf44), mRNA Homo sapiens leucine rich repeat and fibronectin type III domain containing them sapiens hypothetical protein MGC33951 (MGC33951), mRNA Homo sapiens hypothetical protein FLJ33008 (FLJ33008), mRNA Homo sapiens GRINL1A complex upstream protein (Gup1), mRNA Homo sapiens hypothetical protein MGC35118 (MGC35118), mRNA Homo sapiens hypothetical protein FLJ31461 (FLJ31461), mRNA Homo sapiens hypothetical protein FLJ35867 (FLJ35867), mRNA Homo sapiens hypothetical protein MGC34647 (MGC34647), mRNA Homo sapiens zinc finger protein 597 (ZNF597), mRNA Homo sapiens hypothetical protein FLJ32130 (FLJ32130), mRNA
NM_152439 NM_152440 NM_152441 NM_152442 NM_152443 NM_152444 NM_152445 NM_152447 NM_152449 NM_152450 NM_152451 NM_152451 NM_152453 NM_152454 NM_152455 NM_152456 NM_152456 NM_152456	Homo sapiens hypothetical protein MGC39497 (MGC39497), mRNA Homo sapiens hypothetical protein DKFZp761B128 (DKFZp761B128), mRNA Homo sapiens vitelliform macular dystrop hy 2-like 3 (VMD2L3), mRNA Homo sapiens hypothetical protein FLJ32549 (FLJ32549), mRNA Homo sapiens F-box and leucine-rich repeat protein 14 (FBXL14), mRNA Homo sapiens RAD9 homolog B (S. cerevisiae) (RAD9B), mRNA Homo sapiens retinol dehydrogenase 12 (all-trans and 9-cis) (RDH12), mRN Homo sapiens zinc binding alcohol dehydrogenase, domain containing 1 (ZA Homo sapiens chromosome 14 open reading frame 44 (C14orf44), mRNA Homo sapiens leucine rich repeat and fibronectin type III domain containing the Homo sapiens hypothetical protein MGC33951 (MGC33951), mRNA Homo sapiens hypothetical protein FLJ33008 (FLJ33008), mRNA Homo sapiens GRINL1A complex upstream protein (Gup1), mRNA Homo sapiens hypothetical protein MGC35118 (MGC35118), mRNA Homo sapiens hypothetical protein FLJ31461 (FLJ31461), mRNA Homo sapiens hypothetical protein FLJ35867 (FLJ35867), mRNA Homo sapiens hypothetical protein MGC34647 (MGC34647), mRNA Homo sapiens zinc finger protein 597 (ZNF597), mRNA

NM_152460	Homo sapiens hypothetical protein FLJ31882 (FLJ31882), mRNA
NM_152461	Homo sapiens ER to nucleus signalling 1 (ERN1), transcript variant 2, mRNA
NM_152462	Homo sapiens transmembrane protein 21A (TMEM21A), mRNA
NM_152463	Homo sapiens essential meiotic endonuclease 1 homolog 1 (S. pombe) (EMI
NM_152464	Homo sapiens chromosome 17 open reading frame 32 (C17orf32), mRNA
NM_152465	Homo sapiens hypothetical protein MGC39650 (MGC39650), mRNA
NM_152466	Homo sapiens hypothetical protein FLJ25168 (FLJ25168), mRNA
NM_152467	Homo sapiens kelch-like 10 (Drosophila) (KLHL10), mRNA
NM 152468	Homo sapiens epidermodysplasia verruciformis 2 (EVER2), mRNA
NM_152470	Homo sapiens chromosome 18 open reading frame 23 (C18orf23), mRNA
NM 152472	Homo sapiens zinc finger protein 578 (ZNF578), mRNA
NM 152473	Homo sapiens hypothetical protein FLJ32214 (FLJ32214), mRNA
NM_152474	Homo sapiens chromosome 19 open reading frame 18 (C19orf18), mRNA
NM 152474	Homo sapiens chlomosome 19 open reading frame 19 (O1901119), mixtva
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NM_152476	Homo sapiens zinc finger protein 560 (ZNF560), mRNA
NM_152477	Homo sapiens zinc finger protein 565 (ZNF565), mRNA
NM_152478	Homo sapiens zinc finger protein 583 (ZNF583), mRNA
NM_152479	Homo sapiens hypothetical protein MGC33962 (MGC33962), mRNA
NM_152480	Homo sapiens chromosome 19 open reading frame 23 (C19orf23), mRNA
NM_152481	Homo sapiens hypothetical protein FLJ25660 (FLJ25660), mRNA
NM_152482	Homo sapiens chromosome 19 open reading frame 25 (C19orf25), mRNA
NM_152483	Homo sapiens hypothetical protein FLJ25328 (FLJ25328), mRNA
NM_152484	Homo sapiens zinc finger protein 569 (ZNF569), mRNA
NM_152485	Homo sapiens hypothetical protein FLJ25078 (FLJ25078), mRNA
NM_152486	Homo sapiens sterile alpha motif domain containing 11 (SAMD11), mRNA
NM_152487	Homo sapiens hypothetical protein FLJ31842 (FLJ31842), mRNA
NM_152488	Homo sapiens hypothetical protein FLJ32833 (FLJ32833), mRNA
NM_152489	Homo sapiens hypothetical protein MGC35130 (MGC35130), mRNA
NM_152490	Homo sapiens beta 1,3-N-acety/galactosaminy/transferase-II (MGC39558), n
NM_152491	Homo sapiens hypothetical protein FLJ32569 (FLJ32569), mRNA
NM_152492	Homo sapiens hypothetical protein FLJ32825 (FLJ32825), mRNA
NM_152493	Homo sapiens FLJ25476 protein (FLJ25476), mRNA
NM_152494	Homo sapiens hypothetical protein FLJ32785 (FLJ32785), mRNA
NM_152495	Homo sapiens hypothetical protein FLJ38993 (FLJ38993), mRNA
NM_152496	Homo sapiens hypothetical protein FLJ31434 (FLJ31434), mRNA
NM_152497	Homo sapiens hypothetical protein FLJ32206 (FLJ32206), mRNA
NM_152498	Homo sapiens hypothetical protein FLJ32000 (FLJ32000), mRNA
NM_152499	Homo sapiens hypothetical protein MGC45441 (MGC45441), mRNA
NM_152500	Homo sapiens hypothetical protein FLJ33084 (FLJ33084), mRNA
NM_152501	Homo sapiens interferon-inducible protein X (IFIX), transcript variant a1, mRI
NM_152503	Homo saplens chromosome 20 open reading frame 132 (C20orf132), transcr
NM_152504	Homo sapiens hypothetical protein FLJ25067 (FLJ25067), mRNA
NM_152505	Homo sapiens chromosome 21 open reading frame 13 (C21orf13), mRNA
NM_152506	Homo sapiens chromosome 21 open reading frame 129 (C21orf129), mRNA
NM_152507	Homo sapiens chromosome 21 open reading frame 128 (C21orf128), mRNA
NM_152509	Homo sapiens hypothetical protein FLJ31568 (FLJ31568), mRNA
NM_152510	Homo sapiens hypothetical protein MGC26710 (MGC26710), mRNA
NM_152511	Homo sapiens dual specificity phosphatase 18 (DUSP18), mRNA
NM_152512	Homo sapiens hypothetical protein FLJ25421 (FLJ25421), mRNA
NM_152515	Homo sapiens hypothetical protein FLJ40629 (FLJ40629), mRNA
NM_152516	Homo sapiens copper metabolism (Murr1) domain containing 1 (COMMD1),
NM_152517	Homo sapiens hypothetical protein FLJ30990 (FLJ30990), mRNA
NM_152519	Homo sapiens hypothetical protein FLJ23861 (FLJ23861), mRNA
NM_152520	Homo sapiens zinc finger protein 533 (ZNF533), mRNA
NM_152522	Homo sapiens ADP-ribosylation-like factor 6-interacting protein 6 (MGC3386
NM_152523	Homo sapiens hypothetical protein FLJ40432 (FLJ40432), mRNA
NM_152524	Homo sapiens shugoshin-like 2 (S. pombe) (SGOL2), mRNA

NM_152525	Homo sapiens hypothetical protein FLJ25351 (FLJ25351), mRNA
NM_152526	Homo sapiens amyotrophic lateral sclerosis 2 (juvenile) chromosome region,
NM 152527	Homo sapiens solute carrier family 16 (mornocarboxylic acid transporters), mornocarboxylic acid transporters), mornocarboxylic acid transporters)
NM_152528	Homo saplens WD repeat and SAM domain containing 1 (WDSAM1), mRNA
NM_152529	Homo sapiens G protein-coupled receptor 155 (GPR155), mRNA
NM_152531	Homo sapiens hypothetical protein FLJ35155 (FLJ35155), mRNA
NM_152533	Homo sapiens hypothetical protein MGC34728 (MGC34728), mRNA
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NM_152534	Homo sapiens hypothetical protein FLJ32685 (FLJ32685), mRNA
NM_152536	Homo sapiens FYVE, RhoGEF and PH domain containing 5 (FGD5), mRNA
NM_152538	Homo sapiens immunoglobulin superfamily, member 11 (IGSF11), mRNA
NM_152539	Homo sapiens hypothetical protein FLJ32859 (FLJ32859), mRNA
NM_152540	Homo sapiens sec1 family domain containing 2 (SCFD2), mRNA
NM_152542	Homo sapiens hypothetical protein DKFZp761G058 (DKFZp761G058), mRN
NM_152543	Homo sapiens hypothetical protein FLJ25371 (FLJ25371), mRNA
NM_152544	Homo sapiens hypothetical protein FLJ35725 (FLJ35725), mRNA
NM_152545	Homo sapiens RasGEF domain family, member 1B (RASGEF1B), mRNA
NM 152546	Homo sapiens hypothetical protein FLJ25286 (FLJ25286), mRNA
NM_152547	Homo sapiens butyrophilin-like 9 (BTNL9), mRNA
NM 152548	Homo sapiens hypothetical protein FLJ25333 (FLJ25333), mRNA
NM 152549	Homo sapiens hypothetical protein MGC39633 (MGC39633), mRNA
NM_152550	Homo sapiens SH3 domain containing ring finger 2 (SH3RF2), mRNA
NM 152551	Homo sapiens chromosome 6 open reading frame 151 (C6orf151), mRNA
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NM_152552	Homo sapiens sterile alpha motif domain containing 3 (SAMD3), mRNA
NM_152553	Homo sapiens IBR domain containing 1 (IBRDC1), mRNA
NM_152554	Homo sapiens chromosome 6 open reading frame 195 (C6orf195), mRNA
NM_152556	Homo sapiens hypothetical protein FLJ31818 (FLJ31818), mRNA
NM_152557	Homo sapiens hypothetical protein FLJ31413 (FLJ31413), mRNA
NM_152558	Homo sapiens KIAA1023 protein (KIAA1023), mRNA
NM_152559	Homo sapiens Williams Beuren syndrome chromosome region 27 (WBSCR2
NM_152562	Homo sapiens cell division cycle associated 2 (CDCA2), mRNA
NM_152563	Homo sapiens hypothetical protein FLJ10661 (FLJ10661), mRNA
NM_152564	Homo sapiens Cohen syndrome 1 (COH1), transcript variant 1, mRNA
NM 152565	Homo sapiens ATPase, H+ transporting, lysosomal 38kDa, V0 subunit d isof
NM 152568	Homo sapiens hypothetical protein FLJ25169 (FLJ25169), mRNA
NM 152569	Homo sapiens chromosome 9 open reading frame 66 (C9orf66), mRNA
NM_152570	Homo sapiens hypothetical protein FLJ31810 (FLJ31810), mRNA
NM_152571	Homo sapiens hypothetical protein FLJ36779 (FLJ36779), mRNA
NM 152572	Homo sapiens chromosome 9 open reading frame 98 (C9orf98), mRNA
NM_152573	Homo sapiens RAS and EF hand domain containing (RASEF), mRNA
NM 152574	
_	Homo sapiens chromosome 9 open reading frame 52 (C9orf52), mRNA
NM_152577	Homo sapiens hypothetical protein FLJ25735 (FLJ25735), mRNA
NM_152578	Homo sapiens fragile X mental retardation 1 neighbor (FMR1NB), mRNA
NM_152579	Homo sapiens hypothetical protein FLJ38564 (FLJ38564), mRNA
NM_152581	Homo sapiens motile sperm domain containing 2 (MOSPD2), mRNA
NM_152582	Homo sapiens hypothetical protein MGC27005 (MGC27005), mRNA
NM_152583	Homo sapiens hypothetical protein MGC40O53 (MGC40053), mRNA
NM_152584	Homo sapiens heat shock transcription factor, Y-linked 1 (HSFY1), transcript
NM_152585	Homo sapiens RNA binding motif protein, Y-linked, family 1 (MGC33094), mI
NM_152586	Homo sapiens ubiquitin specific protease 54 (USP54), mRNA
NM_152587	Homo sapiens hypothetical protein MGC33948 (MGC33948), mRNA
NM 152588	Homo sapiens hypothetical protein DKFZp762A217 (DKFZp762A217), mRN
NM_152589	Homo sapiens hypothetical protein FLJ35821 (FLJ35821), mRNA
NM_152590	Homo sapiens hypothetical protein FLJ360O4 (FLJ360O4), mRNA
NM_152591	Homo sapiens hypothetical protein FLJ35843 (FLJ35843), mRNA
NM 152592	Homo sapiens chromosome 14 open reading frame 49 (C14orf49), mRNA
NM 152594	Homo sapiens sprouty-related, EVH1 domain containing 1 (SPRED1), mRNA
NM_152595	Homo sapiens sprouty-related, EVH1 domain containing 1 (OFRED I), mRNA Homo sapiens piggyBac transposable element derived 4 (PGBD4), mRNA
14W_102080	Tierne suprene piggybae transposable stantent derived 4 (F ODD4), IIINNA

NM_152596	Homo sapiens hypothetical protein MGC33637 (MGC33637), mRNA
NM_152597	Homo sapiens fibrous sheath interacting protein 1 (FSIP1), mRNA
NM_152598	Homo sapiens hypothetical protein FLJ35757 (FLJ35757), mRNA
NM_152599	Homo sapiens hypothetical protein FLJ35773 (FLJ35773), mRNA
NM_152600	Homo sapiens zinc finger protein 579 (ZNF 579), mRNA
NM_152601	Homo sapiens hypothetical protein FLJ38281 (FLJ38281), mRNA
NM_152602	Homo sapiens zinc finger protein 433 (ZNF433), mRNA
NM_152603	Homo sapiens zinc finger protein 567 (ZNF 567), mRNA
NM_152604	Homo sapiens zinc finger protein 383 (ZNF383), mRNA
NM_152605	Homo sapiens hypothetical protein FLJ37549 (FLJ37549), mRNA
NM_152606	Homo sapiens zinc finger protein 540 (ZNF540), mRNA
NM_152607	Homo sapiens hypothetical protein FLJ40201 (FLJ40201), mRNA
NM_152608	Homo sapiens hypothetical protein FLJ35382 (FLJ35382), mRNA
NM_152609	Homo sapiens hypothetical protein FLJ32001 (FLJ32001), mRNA
NM_152610	Homo sapiens hypothetical protein FLJ35728 (FLJ35728), mRNA
NM_152611	Homo sapiens chromosome 20 open reading frame 75 (C20orf75), mRNA
NM_152612	Homo sapiens hypothetical protein FLJ36O46 (FLJ36O46), mRNA
NM_152613	Homo sapiens hypothetical protein MGC26816 (MGC26816), mRNA
NM_152614	Homo sapiens hypothetical protein MGC35154 (MGC35154), mRNA
NM_152615	Homo sapiens hypothetical protein FLJ40597 (FLJ40597), mRNA
NM_152616	Homo sapiens tripartite motif-containing 42 (TRIM42), mRNA
NM_152617	Homo sapiens hypothetical protein FLJ35794 (FLJ35794), mRNA
NM_152618	Homo sapiens hypothetical protein FLJ35630 (FLJ35630), mRNA
NM_152619	Homo sapiens hypothetical protein MGC45428 (MGC45428), mRNA
NM_152620	Homo sapiens ring finger protein 129 (RNF129), mRNA
NM_152621	Homo sapiens hypothetical protein MGC26963 (MGC26963), mRNA
NM_152622	Homo sapiens hypothetical protein FLJ35954 (FLJ35954), mRNA
NM_152623	Homo sapiens CDC20-like protein (FLJ37927), mRNA
NM_152624	Homo saplens decapping enzyme hDcp2 (DCP2), mRNA
NM_152625	Homo sapiens zinc finger protein 366 (ZNF366), mRNA
NM_152626	Homo sapiens zinc finger protein 92 (HTF12) (ZNF92), mRNA
NM_152628	Homo sapiens hypothetical protein MGC39715 (MGC39715), mRNA
NM_152629	Homo sapiens GLIS family zinc finger 3 (GLIS3), mRNA
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NM_152631	Homo sapiens hypothetical protein FLJ35782 (FLJ35782), mRNA
NM_152632	Homo sapiens chromosome X open reading frame 22 (CXorf22), mRNA
NM_152633	Homo sapiens hypothetical protein FLJ34O64 (FLJ34O64), mRNA
NM_152635	Homo sapiens oncoprotein induced transcript 3 (OIT3), mRNA
NM_152636	Homo sapiens hypothetical protein FLJ33979 (FLJ33979), mRNA
NM_152637	Homo sapiens hypothetical protein MGC17301 (MGC17301), mRNA
NM_152638	Homo sapiens hypothetical protein MGC26598 (MGC26598), mRNA
NM_152640	Homo sapiens decapping enzyme hDcp1b (DCP1B), mRNA
NM_152643	Homo sapiens kinase non-catalytic C-lobe domain (KIND) containing 1 (KND
NM_152644	Homo sapiens family with sequence similarity 24, member B (FAM24B), mRI
NM_152647	Homo sapiens hypothetical protein FLJ32800 (FLJ32800), mRNA
NM_152649	Homo sapiens hypothetical protein FLJ34389 (FLJ34389), mRNA
NM_152652	Homo sapiens zinc finger protein 553 (ZNF553), mRNA
NM_152653	Homo sapiens ubiquitin-conjugating enzyme E2E 2 (UBC4/5 homolog, yeast
NM_152654	Homo sapiens hypothetical protein FLJ38607 (FLJ38607), mRNA
NM_152655	Homo sapiens zinc finger protein 585A (ZNF585A), transcript variant 1, mRN
NM_152657	Homo sapiens gametogenetin (GGN), transcript variant 1, mRNA
NM_152658	Homo sapiens THAP domain containing 8 (THAP8), mRNA Homo sapiens hypothetical protein MGC34648 (MGC34648), mRNA
NM_152660	Homo sapiens hypothetical protein FLJ23867 (FLJ23867), mRNA
NM_152662	Homo sapiens Ral GEF with PH domain and SH3 binding motif 2 (RALGPS2
NM_152663	
NM_152665	
NM_152666	Homo sapiens hypothetical protonin Euto / 10 (i Euto / 10), illinar

NM_152667	Homo sapiens chromosome 20 open reading frame 147 (C20orf147), mRNA
NM_152670	Homo sapiens hypothetical protein FLJ25369 (FLJ25369), mRNA
NM_152671	Homo sapiens phosphatidylinositol-3-phosphate/phosphatidylinositol 5-kinas
NM_152672	Homo sapiens organic solute transporter alpha (OSTalpha), mRNA
NM_152673	Homo sapiens mucin 20 (MUC20), mRNA
NM_152675	Homo sapiens hypothetical protein FLJ23754 (FLJ23754), mRNA
NM 152676	Homo sapiens F-box protein 15 (FBXO15), mRNA
NM_152677	Homo sapiens zinc finger protein 494 (ZNF494), mRNA
NM_152678	Homo sapiens hypothetical protein FLJ34969 (FLJ34969), mRNA
NM_152679	Homo sapiens solute carrier family 10 (sodium/bile acid cotransporter family)
NM 152680	Homo sapiens hypothetical protein FLJ32028 (FLJ32028), mRNA
NM 152681	Homo sapiens hypothetical protein FLJ38482 (FLJ38482), mRNA
NM_152682	Homo sapiens hypothetical protein MGC10198 (MGC10198), mRNA
NM_152683	Homo sapiens hypothetical protein FLJ33167 (FLJ33167), mRNA
NM 152684	Homo sapiens hypothetical protein FLJ39653 (FLJ39653), mRNA
NM_152685	Homo sapiens solute carrier family 23 (nucleobase transporters), member 1
NM_152686	Homo sapiens hypothetical protein MGC29463 (MGC29463), mRNA
NM_152687	Homo sapiens hypothetical protein FLJ33641 (FLJ33641), mRNA
NM_152688	Homo sapiens KH domain containing, RNA binding, signal transduction asso
NM 152689	Homo saplens hypothetical protein MGC9712 (MGC9712), mRNA
NM_152690	Homo sapiens dolichyl-phosphate mannosyltransferase polypeptide 2, regula
NM_152692	Homo sapiens core 1 UDP-galactose:N-acetylgalactosamine-alpha-R beta 1
NM_152693	Homo sapiens hypothetical protein MGC34827 (MGC34827), mRNA
NM_152694	Homo sapiens zinc finger, CCHC domain containing 5 (ZCCHC5), mRNA
NM 152695	Homo sapiens hypothetical protein FLJ23614 (FLJ23614), mRNA
NM_152696	Homo sapiens homeodomain interacting protein kinase 1 (HIPK1), transcript
NM_152697	Homo sapiens hypothetical protein MGC34032 (MGC34032), mRNA
NM_152698	Homo sapiens hypothetical protein FLJ38377 (FLJ38377), mRNA
NM_152699	Homo sapiens SUMO1/sentrin specific protease 5 (SENP5), mRNA
NM_152700	Homo sapiens hypothetical protein MGC26597 (MGC26597), mRNA
NM_152701	Homo sapiens ATP binding cassette gene, sub-family A (ABC1), member 13
NM_152702	Homo sapiens chromosome 9 open reading frame 94 (C9orf94), mRNA
NM_152704	Homo sapiens hypothetical protein FLJ25477 (FLJ25477), transcript variant
NM_152705	Homo sapiens hypothetical protein MGC9850 (MGC9850), mRNA
NM_152706	Homo sapiens hypothetical protein MGC26647 (MGC26647), mRNA
NM_152707	Homo sapiens solute carrier family 25 (mitochondrial carrier; Graves disease
NM_152710	Homo sapiens chromosome 10 open reading frame 27 (C10orf27), mRNA
NM_152713	Homo sapiens integral membrane protein 1 (ITM1), mRNA
NM_152715	Homo sapiens hypothetical protein MGC10233 (MGC10233), mRNA
NM_152716	Homo sapiens hypothetical protein FLJ36874 (FLJ36874), mRNA
NM_152717	Homo sapiens hypothetical protein MGC35295 (MGC35295), mRNA
NM_152718	Homo sapiens hypothetical protein FLJ32009 (FLJ32009), mRNA
NM_152719	Homo sapiens testis-specific leucine zipper protein nurit (NURIT), mRNA
NM_152720	Homo sapiens NIMA (never in mitosis gene a)-related kinase 3 (NEK3), trans
NM_152721	Homo sapiens docking protein 5-like (DOK5L), mRNA
NM_152722	Homo sapiens hypothetical protein FLJ25530 (FLJ25530), mRNA
NM_152723	Homo sapiens hypothetical protein FLJ38159 (FLJ38159), mRNA
NM_152724	Homo sapiens Ras suppressor protein 1 (RSU1), transcript variant 2, mRNA
NM_152725	
NM_152726	Homo sapiens Smhs2 homolog (rat) (FLJ34588), mRNA
NM_152727	Homo sapiens copine II (CPNE2), mRNA
NM_152728	Homo sapiens chromosome 18 open reading frame 20 (C18orf20), mRNA
NM_152729	Homo sapiens 5'-nucleotidase, cytosolic II-like 1 (NT5C2L1), mRNA
NM_152730	Homo sapiens chromosome 6 open reading frame 170 (C6orf170), mRNA
NM_152731	Homo sapiens chromosome 6 open reading frame 65 (C6orf65), mRNA
NM_152732	Homo sapiens chromosome 6 open reading frame 206 (C6orf206), mRNA
NM_152733	Homo sapiens BTB (POZ) domain containing 9 (BTBD9), mRNA

NM_152734	Homo sapiens chromosome 6 open reading frame 89 (C6orf89), mRNA
NM_152735	Homo sapiens zinc finger and BTB domain containing 9 (ZBTB9), mRNA
NM_152736	Homo sapiens zinc finger protein 187 (ZNF187), mRNA
NM_152737	Homo sapiens hypothetical protein MGC33993 (MGC33993), mRNA
NM_152738	Homo sapiens hypothetical protein MGC40222 (MGC40222), mRNA
NM_152739	Homo sapiens homeo box A9 (HOXA9), transcript variant 1, mRNA
NM_152740	Homo sapiens 3-hydroxyisobutyrate dehydrogenase (HI BADH), mRNA
NM_152742	Homo sapiens glypican 2 (cerebroglycan) (GPC2), mRNA
NM_152743	Homo sapiens chromosome 7 open reading frame 27 (C7orf27), mRNA
NM_152744	Homo sapiens sidekick homolog 1 (chicken) (SDK1), mRNA
NM 152745	Homo sapiens neurexophilin 1 (NXPH1), mRNA
NM 152747	Homo sapiens hypothetical protein DKFZp586I1420 (DKFZp586I1420), mRN
NM 152748	Homo sapiens hypothetical protein FLJ31340 (FLJ31340), mRNA
NM_152749	Homo sapiens hypothetical protein MGC33190 (MGC33 190), mRNA
NM 152750	Homo sapiens hypothetical protein FLJ23834 (FLJ23834), mRNA
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NM 152753	Homo sapiens signal peptide, CUB domain, EGF-like 3 (SCUBE3), mRNA
NM_152754	Homo sapiens sema domain, immunoglobulin domain (Ig), short basic doma
NM 152755	Homo sapiens hypothetical protein MGC40499 (MGC40499), mRNA
NM 152757	Homo sapiens hypothetical protein FLJ30313 (FLJ30313), mRNA
NM_152758	Homo sapiens YTH domain family 3 (YTHDF3), mRNA
NM 152759	Homo sapiens hypothetical protein MGC35140 (MGC35140), mRNA
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NM_152761	Homo sapiens hypothetical protein FLJ25444 (FLJ25444), mRNA
NM_152762	Homo sapiens testis specific, 10 interacting protein (TSGA10IP), mRNA
NM 152763	Homo sapiens hypothetical protein MGC26989 (MGC26989), mRNA
NM_152764	Homo sapiens hypothetical protein MGC35212 (MGC35212), mRNA
NM_152765	Homo sapiens hypothetical protein MGC33510 (MGC33510), mRNA
NM_152766	Homo sapiens hypothetical protein MGC40107 (MGC4O107), mRNA
NM_152769	Homo sapiens chromosome 19 open reading frame 26 (C19orf26), mRNA
NM_152770	Homo sapiens hypothetical protein MGC35043 (MGC35043), mRNA
NM 152771	Homo sapiens chromosome 19 open reading frame 34 (C19orf34), mRNA
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NM_152773	Homo sapiens hypothetical protein MGC33212 (MGC33212), mRNA
NM 152774	Homo sapiens hypothetical protein MGC42090 (MGC42090), mRNA
NM_152775	Homo sapiens hypothetical protein MGC33607 (MGC33607), mRNA
NM_152776	Homo sapiens hypothetical protein MGC40579 (MGC4O579), mRNA
_	Homo sapiens chromosome 14 open reading frame 48 (C14orf48), mRNA
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_	Homo sapiens hypothetical protein MGC26856 (MGC26856), mRNA
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_	Homo sapiens hypothetical protein FLJ32830 (FLJ32830), mRNA
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	Homo sapiens hypothetical protein MGC25181 (MGC25181), mRNA
NM_152783	Homo sapiens hypothetical protein MGC39581 (MGC39581), mRNA
NM_152784 NM_152785	Homo sapiens germinal center expressed transcript 2 (GCET2), mRNA
_	Homo sapiens chromosome 9 open reading frame 43 (C9orf43), mRNA
NM_152786	Homo sapiens TAK1-binding protein 3 (TAB3), transcript variant 1, mRNA
NM_152787	Homo sapiens E2a-Pbx1-associated protein (EB-1), transcript variant 1, mRN
NM_152788	Homo sapiens hypothetical protein MGC40405 (MGC4O405), mRNA
NM_152789	
NM_152791	Homo sapiens zinc finger protein 555 (ZNF555), mRNA Homo sapiens hypothetical protein FLJ25084 (FLJ25084), mRNA
NM_152792	Homo sapiens hypothetical protein El323064 (FL323064), mRNA
NM_152793	Homo sapiens hypoxia inducible factor 3, alpha subunit (HIF3A), transcript va
NM_152794	Homo sapiens hypoxia inducible factor 3, alpha subunit (HIF3A), transcript values appears hypoxia inducible factor 3, alpha subunit (HIF3A), transcript values appears hypoxia inducible factor 3, alpha subunit (HIF3A), transcript values appears hypoxia inducible factor 3, alpha subunit (HIF3A), transcript values appears hypoxia inducible factor 3, alpha subunit (HIF3A), transcript values appears hypoxia inducible factor 3, alpha subunit (HIF3A), transcript values appears hypoxia inducible factor 3, alpha subunit (HIF3A), transcript values appears hypoxia inducible factor 3, alpha subunit (HIF3A), transcript values appears hypoxia inducible factor 3, alpha subunit (HIF3A), transcript values appears hypoxia inducible factor 3, alpha subunit (HIF3A), transcript values appears hypoxia inducible factor 3, alpha subunit (HIF3A), transcript values appears hypoxia inducible factor 3, alpha subunit (HIF3A), transcript values appears hypoxia inducible factor 3, alpha subunit (HIF3A), transcript values appears hypoxia inducible factor 3, alpha subunit (HIF3A), transcript values appears hypoxia inducible factor 3, alpha subunit (HIF3A), transcript values appears hypoxia inducible factor 3, alpha subunit (HIF3A), transcript values appears hypoxia inducible factor 3, alpha subunit (HIF3A), transcript values appears hypoxia inducible factor 3, alpha subunit (HIF3A), transcript values appears hypoxia inducible factor 3, alpha subunit (HIF3A), transcript values appears hypoxia inducible factor 3, alpha subunit (HIF3A), transcript values appears hypoxia inducible factor 3, alpha subunit (HIF3A), transcript values appears hypoxia inducible factor 3, alpha subunit (HIF3A), transcript values appears hypoxia inducible factor 3, alpha subunit (HIF3A), transcript values appears hypoxia inducible factor 3, alpha subunit (HIF3A), transcript values appears hypoxia inducible factor 3, alpha subunit (HIF3A), transcript values appears hypoxia inducible factor 3, alpha subunit (HIF3A), alpha subunit (HIF3A), transcript values appears hypoxia
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NM_152796	
NM_152826	Homo sapiens soming health (Orazh), transonpt variante s, mistra

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NM 152827
            Homo sapiens sorting nexin 3 (SNX3), transcript variant 2, mRNA
NM 152828
            Homo sapiens sorting nexin 3 (SNX3), transcript variant 3, mRNA
             Homo sapiens testis derived transcript (3 LIM domains) (TES), transcript vari
NM 152829
NM 152830
            Homo sapiens angiotensin I converting enzyme (peptidyl-dipeptidase A) 1 (A
            Homo sapiens angiotensin I converting enzyme (peptidyl-dipeptidase A) 1 (A
NM 152831
NM 152832
            Homo sapiens Mouse Mammary Turmor Virus Receptor homolog 1 (MTVR1)
NM 152834
             Homo sapiens transmembrane protein 18 (TMEM18), mRNA
NM 152835
            Homo sapiens casein kinase (LOC149420), mRNA
            Homo sapiens sorting nexin 16 (SNX16), transcript variant 2, mRNA
NM_152836
             Homo sapiens sorting nexin 16 (SNX16), transcript variant 3, mRNA
NM 152837
NM_152838
            Homo sapiens RNA binding motif protein 12 (RBM12), transcript variant 2, m
            Homo sapiens Hermansky-Pudlak syndrome 4 (HPS4), transcript variant 3, r
NM 152840
             Homo sapiens Hermansky-Pudlak syndrome 4 (HPS4), transcript variant 2, r
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             Homo sapiens Hermansky-Pudlak syndrome 4 (HPS4), transcript variant 5, r
NM 152842
             Homo sapiens Hermansky-Pudlak syndrome 4 (HPS4), transcript variant 4, r
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NM_152850
             Homo sapiens phosphatidylinositol glycan, class O (PIGO), transcript variant
             Homo sapiens membrane-spanning 4-domains, subfamily A, member 6A (MS
NM_152851
             Homo sapiens membrane-spanning 4-domains, subfamily A, member 6A (M:
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             Homo sapiens tumor necrosis factor receptor superfamily, member 5 (TNFR:
NM_152854
             Homo sapiens immunoglobulin lambda-like polypeptide 1 (IGLL1), transcript
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             Homo sapiens RNA binding motif protein 10 (RBM10), transcript variant 2, m
NM_152856
             Homo sapiens Wilms tumor 1 associated protein (WTAP), transcript variant 2
NM_152857
             Homo sapiens Wilms tumor 1 associated protein (WTAP), transcript variant 3
NM 152858
NM 152860
             Homo sapiens Sp7 transcription factor (SP7), mRNA
             Homo sapiens actin related protein 2/3 complex, subunit 2, 34kDa (ARPC2),
NM 152862
             Homo sapiens chromosome 20 open reading frame 58 (C20orf58), mRNA
NM 152864
             Homo sapiens membrane-spanning 4-domains, subfamily A, member 1 (MS-
NM_152866
             Homo sapiens membrane-spanning 4-domains, subfamily A, member 1 (MS-
NM_152867
             Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 4
NM_152868
             Homo sapiens regucalcin (senescence marker protein-30) (RGN), transcript
NM 152869
             Homo sapiens abhydrolase domain containing 1 (ABHD1), transcript variant
NM_152870
NM 152871
             Homo sapiens tumor necrosis factor receptor superfamily, member 6 (TNFR)
             Homo sapiens tumor necrosis factor receptor superfamily, member 6 (TNFR:
NM 152872
             Homo sapiens tumor necrosis factor receptor superfamily, member 6 (TNFR:
NM 152873
NM_152874 Homo sapiens tumor necrosis factor receptor superfamily, member 6 (TNFR)
NM 152875 Homo sapiens tumor necrosis factor receptor superfamily, member 6 (TNFR)
NM_152876 Homo sapiens tumor necrosis factor receptor superfamily, member 6 (TNFR
NM_152877 Homo sapiens tumor necrosis factor receptor superfamily, member 6 (TNFR)
NM_152878 Homo sapiens v-maf musculoaponeurotic fibrosarcoma oncogene homolog F
NM_152879 Homo sapiens diacylglycerol kinase, delta 130kDa (DGKD), transcript varian
NM_152880 Homo sapiens PTK7 protein tyrosine kinase 7 (PTK7), transcript variant PTK
NM_152881
             Homo sapiens PTK7 protein tyrosine kinase 7 (PTK7), transcript variant PTK
NM_152882
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NM 152883
             Homo sapiens PTK7 protein tyrosine kinase 7 (PTK7), transcript variant PTK
             Homo sapiens collagen, type XXII, alpha 1 (COL22A1), mRNA
NM 152888
             Homo sapiens carbohydrate (chondroitin 4) sulfotransferase 13 (CHST13), rr
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             Homo sapiens collagen, type XXIV, alpha 1 (COL24A1), mRNA
             Homo sapiens protease, serine, 33 (PRSS33), mRNA
NM 152891
             Homo sapiens hypothetical protein DKFZp434K1815 (DKFZp434K1815), mF
NM 152892
             Homo sapiens ubiquitin-like, containing PHD and RING finger domains, 2 (U
NM 152896
             Homo sapiens chromosome 20 open reading frame 161 (C20orf161), transcr
NM 152897
             Homo sapiens Fer3-like (Drosophila) (FERD3L), mRNA
NM 152898
             Homo sapiens interleukin 4 induced 1 (IL4I1), transcript variant 1, mRNA
NM_152899
             Homo sapiens membrane-associated guanylate kinase-related (MAGI-3) (M/
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             Homo sapiens pyrin-domain containing protein 1 (PYC1), mRNA
NM_152901
             Homo sapiens putative MAPK activating protein (MGC3794), mRNA
NM 152902
NM 152903
             Homo sapiens kelch repeat and BTB (POZ) domain containing 6 (KBTBD6),
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NM_152904	Homo sapiens sperm antigen HCMOGT-1 (HCMOGT-1), mRNA
NM 152905	Homo sapiens neural precursor cell expressed, developmentally down-regula
NM 152906	Homo sapiens hypothetical protein DKFZp761P1121 (DKFZp761P1121), mF
NM_152908	Homo sapiens hypothetical protein FLJ31196 (FLJ31196), mRNA
NM_152909	Homo sapiens zinc finger protein 548 (ZNF548), mRNA
NM 152910	Homo sapiens diacylglycerol kinase, eta (DGKH), transcript variant 1, mRNA
NM_152911	Homo sapiens polyamine oxidase (exo-N4-amino) (PAOX), transcript variant
NM_152911	Homo sapiens mitochondrial translational initiation factor 3 (MTIF3), mRNA
NM_152913	Homo sapiens hypothetical protein DKFZp761L1417 (DKFZp761L1417), mR
NM 152914	Homo sapiens transcript expressed during hematopolesis 2 (MGC33894), ml
_	
NM_152916	Homo sapiens egf-like module containing, mucin-like, hormone receptor-like
NM_152917	Homo sapiens egf-like module containing, mucin-like, hormone receptor-like
NM_152918	Homo sapiens egf-like module containing, mucin-like, hormone receptor-like
NM_152919	Homo sapiens egf-like module containing, mucin-like, hormone receptor-like
NM_152920	Homo sapiens egf-like module containing, mucin-like, hormone receptor-like
NM_152921	Homo sapiens egf-like module containing, mucin-like, hormorne receptor-like
NM_152924	Homo sapiens abhydrolase domain containing 2 (ABHD2), transcript variant
NM_152925	Homo sapiens copine I (CPNE1), transcript variant 1, mRNA
NM_152926	Homo saplens copine I (CPNE1), transcript variant 2, mRNA
NM_152927	Homo sapiens copine I (CPNE1), transcript variant 4, mRNA
NM_152928	Homo sapiens copine I (CPNE1), transcript variant 5, mRNA
NM_152929	Homo sapiens copine I (CPNE1), transcript variant 6, mRNA
NM_152930	Homo sapiens copine I (CPNE1), transcript variant 7, mRNA
NM_152931	Homo sapiens copine I (CPNE1), transcript variant 8, mRNA
NM_152932	Homo sapiens glycosyltransferase AD-017 (AD-017), transcript variant 1, mF
NM_152933	Homo sapiens protein phosphatase, EF hand calcium-binding domain 2 (PPI
NM_152934	Homo sapiens protein phosphatase, EF hand calcium-binding domain 2 (PPI
NM_152939	Homo sapiens egf-like module containing, mucin-like, hormone receptor-like
NM_152942	Homo sapiens tumor necrosis factor receptor superfamily, member 8 (TNFR:
NM_152943	Homo sapiens zinc finger protein 268 (ZNF268), transcript variant B, mRNA
NM_152945	Homo sapiens developmentally regulated RNA-binding protein 1 (DRB1), mF
NM_152988	Homo sapiens SPPL2b (SPPL2B), mRNA
NM_152989	Homo sapiens SRY (sex determining region Y)-box 5 (SOX5), transcript varia
NM_152990	Homo sapiens peroxisomal, testis specific 1 (PXT1), mRNA
NM_152991	Homo sapiens embryonic ectoderm development (EED), transcript variant 2,
NM_152992	Homo sapiens POM (POM121 homolog, rat) and ZP3 fusion (POMZP3), tran
NM_152994	Homo sapiens smooth muscle myosin heavy chain 11 isoform SM1-like (LOC
NM_152995	Homo sapiens ovarian zinc finger protein (HOZFP), mRNA
NM_152996	Homo sapiens sialyltransferase 7 ((alpha-N-acetylneuraminyI-2,3-beta-galaci
NM_152997	Homo sapiens chromosome 4 open reading frame 7 (C4orf7), mRNA
NM_152998	Homo sapiens enhancer of zeste homolog 2 (Drosophila) (EZH2), transcript
NM_152999	Homo sapiens six transmembrane epithelial antigen of prostate 2 (STEAP2),
NM_153000	Homo sapiens adenomatosis polyposis coli down-regulated 1 (APCDD1), mF
NM_153001	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (F
NM_153002	Homo sapiens G protein-coupled receptor 156 (GPR156), mRNA
NM_153003	Homo sapiens orofacial cleft 1 candidate 1 (OFCC1), mRNA
NM_153005	Homo sapiens RIO kinase 1 (yeast) (RIOK1), transcript variant 2, mRNA
NM_153006	Homo sapiens N-acetylglutamate synthase (NAGS), mRNA
NM_153007	Homo sapiens outer dense fiber of sperm tails 4 (ODF4), mRNA
NM_153008	Homo sapiens hypothetical protein FLJ30277 (FLJ30277), mRNA
NM_153010	Homo sapiens chromosome 18 open reading frame 16 (C18orf16), mRNA
NM_153011	Homo sapiens hypothetical protein FLJ30594 (FLJ30594), mRNA
NM_153012	Homo sapiens tumor necrosis factor (ligand) superfamily, member 12 (TNFS
NM_153013	Homo sapiens hypothetical protein FLJ30596 (FLJ30596), mRNA
NM_153014	Homo sapiens hypothetical protein FLJ30634 (FLJ30634), mRNA
NM_153015	Homo sapiens hypothetical protein FLJ30668 (FLJ30668), mRNA
NM_153018	Homo sapiens hypothetical protein FLJ30726 (FLJ30726), mRNA
_	

NM_153019	Homo sapiens transmembrane protease, serine 6 (TMPRSS6), mRNA
NM_153020	Homo sapiens RNA binding motif protein 24 (RBM24), mRNA
NM_153022	Homo sapiens hypothetical protein FLJ31166 (FLJ31166), mRNA
NM_153023	Homo sapiens spermatogenesis associated 13 (SPATA13), mRNA
NM_153024	Homo sapiens seven transmembrane helix receptor (FLJ31393), mRNA
NM 153025	Homo sapiens hypothetical protein FLJ31606 (FLJ31606), mRNA
NM_153026	Homo sapiens prickle-like 1 (Drosophila) (PRICKLE1), mRNA
NM 153027	Homo sapiens hypothetical protein FLJ31659 (FLJ31659), mRNA
NM 153028	Homo sapiens zinc finger protein 75a (ZNF75A), mRNA
NM_153029	Homo sapiens Nedd4 binding protein 1 (N4BP1), mRNA
NM 153031	Homo sapiens hypothetical protein FLJ32063 (FLJ32063), mRNA
NM_153032	Homo sapiens hypothetical protein FLJ32065 (FLJ32065), mRNA
NM 153033	Homo sapiens potassium channel tetramerisation domain containing 7 (KCT
NM_153034	Homo sapiens zinc finger protein 488 (ZNF488), mRNA
NM 153035	Homo sapiens hypothetical protein FLJ32112 (FLJ32112), mRNA
NM_153036	Homo sapiens chromosome 6 open reading frame 78 (C6orf78), mRNA
NM 153038	Homo sapiens hypothetical protein FLJ32447 (FLJ32447), mRNA
NM_153040	Homo sapiens hypothetical protein FLJ32831 (FLJ32831), mRNA
NM 153041	Homo sapiens hypothetical protein FLJ32955 (FLJ32955), mRNA
NM 153041	Homo sapiens hypothetical protein FLJ37078 (FLJ37078), mRNA
	Homo sapiens hypothetical protein FLJ35801 (FLJ35801), mRNA
NM_153044	Homo sapiens chromosome 9 open reading frame 91 (C9orf91), mRNA
NM_153045 NM 153046	Homo sapiens tudor domain containing 9 (TDRD9), mRNA
_	Homo sapiens FYN oncogene related to SRC, FGR, YES (FYN), transcript va
NM_153047	Homo sapiens FYN oncogene related to SRC, FGR, YES (FYN), transcript vo
NM_153048	Homo sapiens myotubularin related protein 3 (MTMR3), transcript variant 1, I
NM_153050	Homo sapiens myotubularin related protein 3 (MTMR3), transcript variant 2, I
NM_153051 NM 153181	Homo sapiens neuropilin (NRP) and tolloid (TLL)-like 1 (NETO1), transcript v
_	Homo sapiens MYC induced nuclear antigen (MINA), transcript variant 3, mF
NM_153182 NM_153183	Homo sapiens much induced ruclear antiger (winty), that isotopic variants, fine Homo sapiens nudix (nucleoside diphosphate linked molety X)-type motif 10
NM_153184	Homo sapiens immunoglobulin superfamily, member 4D (IGSF4D), mRNA
NM_153186	Homo sapiens ankyrin repeat domain 15 (ANKRD15), transcript variant 2, ml
NM_153187	Homo sapiens solute carrier family 22 (organic cation transporter), member 1
NM 153188	Homo sapiens transportin 1 (TNPO1), transcript variant 2, mRNA
NM_153189	Homo sapiens sperm adhesion molecule 1 (PH-20 hyaluronidase, zona pellu
NM_153191	Homo sapiens solute carrier family 22 (organic cation transporter), member 2
NM 153200	Homo sapiens endothelial differentiation-related factor 1 (EDF1), transcript vi
NM_153201	Homo sapiens heat shock 70kDa protein 8 (HSPA8), transcript variant 2, mR
NM_153202	Homo sapiens a disintegrin and metalloproteinase domain 33 (ADAM33), tra
NM_153204	Homo sapiens chromosome 21 open reading frame 90 (C21orf90), mRNA
NM_153206	Homo sapiens adhesion molecule AMICA (AMICA), mRNA
NM_153207	Homo sapiens AE binding protein 2 (AEBP2), mRNA
NM 153208	Homo sapiens hypothetical protein MGC35048 (MGC35048), mRNA
NM 153209	Homo sapiens hypothetical protein FLJ37300 (FLJ37300), mRNA
NM_153211	Homo sapiens chromosome 18 open reading frame 17 (C18orf17), mRNA
NM_153212	Homo sapiens gap junction protein, beta 4 (connexin 30.3) (GJB4), mRNA
NM_153213	Homo sapiens Rho guanine nucleotide exchange factor (GEF) 19 (ARHGEF
NM 153214	Homo sapiens hypothetical protein FLJ37440 (FLJ37440), mRNA
NM_153215	Homo sapiens hypothetical protein FLJ38608 (FLJ38608), mRNA
NM 153216	Homo sapiens hypothetical protein FLJ25680 (FLJ25680), mRNA
NM_153217	Homo sapiens hypothetical protein MGC13034 (MGC13034), mRNA
NM 153218	Homo sapiens hypothetical protein FLJ38725 (FLJ38725), mRNA
NM_153219	Homo sapiens zinc finger protein 524 (ZNF524), mRNA
NM_153220	Homo sapiens hypothetical protein MGC35440 (MGC35440), mRNA
NM_153221	Homo sapiens cartilage intermediate layer protein 2 (CILP2), mRNA
NM_153223	
NM_153225	· · · · · · · · · · · · · · · · · · ·

NM_153226	Homo sapiens transmembrane protein 20 (TMEM20), mRNA
NM_153228	Homo sapiens hypothetical protein FLJ38335 (FLJ38335), mRNA
NM_153229	Homo sapiens hypothetical protein FLJ33318 (FLJ33318), mRNA
NM_153230	Homo sapiens F-box protein 39 (FBXO39), mRNA
NM_153231	Homo sapiens zinc finger protein 550 (ZNF550), mRNA
NM_153232	Homo sapiens CREBBP/EP300 inhibitor 2 (CRI2), mRNA
NM 153233	Homo sapiens hypothetical protein FLJ36445 (FLJ36445), mRNA
NM 153234	Homo sapiens chromosome 5 open reading frame 11 (C5orf11), mRNA
NM 153236	Homo sapiens immune associated nucleotide (hIAN7), mRNA
NM_153238	Homo sapiens hypothetical protein MGC22001 (MGC22001), mRNA
NM 153239	Homo sapiens hypothetical protein KIAA1924 (KIAA1924), mRNA
NM_153240	Homo sapiens nephronophthisis 3 (adolescent) (NPHP3), mRNA
NM_153244	Homo sapiens chromosome 10 open reading frame 111 (C10orf111), mRNA
NM 153246	Homo sapiens hypothetical protein MGC45491 (MGC45491), mRNA
NM_153247	Homo sapiens solute carrier family 29 (nucleoside transporters), member 4 (
NM 153248	Homo sapiens hypothetical protein MGC14276 (MGC14276), mRNA
NM_153251	Homo sapiens hypothetical protein FLJ25952 (FLJ25952), mRNA
NM_153252	Homo sapiens bromo domain-containing protein disrupted in leukemia (BRO
NM 153253	Homo sapiens signal-induced proliferation-associated gene 1 (SIPA1), transc
NM 153254	Homo sapiens hypothetical protein FLJ36119 (FLJ36119), mRNA
NM_153255	Homo sapiens minichromosome maintenance deficient domain containing 1
NM 153256	Homo sapiens chromosome 10 open reading frame 47 (C10orf47), mRNA
NM_153257	Homo sapiens gonadotropin inducible transcription repressor 1 (GIOT-1), mF
NM_153260	Homo sapiens hypothetical protein FLJ36812 (FLJ36812), mRNA
NM 153261	Homo sapiens hypothetical protein FLJ38101 (FLJ38101), mRNA
	Homo sapiens synaptotagmin XIV (SYT14), mRNA
NM_153262	Homo sapiens zinc finger protein 549 (ZNF549), mRNA
NM_153263	
NM_153264	Homo sapiens hypothetical protein FLJ35880 (FLJ35880), mRNA Homo sapiens hypothetical protein FLJ35827 (FLJ35827), mRNA
NM_153265	
NM_153266	Homo sapiens hypothetical protein MGC33486 (MGC33486), mRNA
NM_153267	Homo sapiens MAM domain containing 2 (MAMDC2), mRNA
NM_153268	Homo sapiens hypothetical protein FLJ31579 (FLJ31579), mRNA Homo sapiens chromosome 20 open reading frame 96 (C20orf96), mRNA
NM_153269	Homo sapiens hypothetical protein FLJ34960 (FLJ34960), mRNA
NM_153270	
NM_153271	Homo sapiens hypothetical protein MGC32065 (MGC32065), mRNA
NM_153273	Homo sapiens inositol hexaphosphate kinase 1 (IHPK1), mRNA
NM_153274	Homo sapiens vitelliform macular dystrophy 2-like 2 (VMD2L2), mRNA
NM_153276	Homo sapiens solute carrier family 22 (organic anion transporter), member 6
NM_153277	Homo sapiens solute carrier family 22 (organic anion transporter), member 6
NM_153278	Homo sapiens solute carrier family 22 (organic anion transporter), member 6
NM_153279	Homo sapiens solute carrier family 22 (organic anion transporter), member 6
NM_153280	Homo sapiens ubiquitin-activating enzyme E1 (A1S9T and BN75 temperatur
NM_153281	Homo sapiens hyaluronoglucosaminidase 1 (HYAL1), transcript variant 8, ml
NM_153282	Homo sapiens hyaluronoglucosaminidase 1 (HYAL1), transcript variant 2, ml
NM_153283	Homo sapiens hyaluronoglucosaminidase 1 (HYAL1), transcript variant 3, ml
NM_153284	Homo sapiens hyaluronoglucosaminidase 1 (HYAL1), transcript variant 4, mf
NM_153285	
NM_153286	Homo sapiens hyaluronoglucosaminidase 1 (HYAL1), transcript variant 6, ml
NM_153289	
NM_153290	Homo sapiens family with sequence similarity 10, member A4 (FAM10A4), m
NM_153291	Homo sapiens family with sequence similarity 10, member A5 (FAM10A5), m
NM_153292	and the second of the second o
NM_153320	Homo sapiens solute carrier family 22 (organic anion transporter), member 7
NM_153321	Homo sapiens peripheral myelin protein 22 (PMP22), transcript variant 2, mF
NM_153322	Homo sapiens peripheral myelin protein 22 (PMP22), transcript variant 3, mF
NM_153324	·
NM_153325	Homo sapiens defensin, beta 125 (DEFB125), mRNA

NM_153326	
NM_153328	Homo sapiens retinoblastoma binding protein 9 (RBBP9), transcript variant 2
NM_153329	Homo sapiens hypothetical protein MGC10204 (MGC10204), mRNA
NM_153330	Homo sapiens DnaJ (Hsp40) homolog, subfamily B, member 8 (DNAJB8), m
NM_153331	Homo sapiens potassium channel tetramerisation domain containing 6 (KCT
NM_153332	Homo sapiens 3' exoribonuclease (3'HEXO), mRNA
NM_153333	Homo saplens hypothetical protein MGC45400 (MGC45400), mRNA
NM_153334	Homo sapiens scavenger receptor class F, member 2 (SCARF2), transcript \
NM_153335	Homo sapiens protein kinase LYK5 (LYK5), mRNA
NM_153336	Homo sapiens chromosome 10 open reading frame 89 (C10orf89), mRNA
NM_153337	Homo sapiens selectin ligand interactor cytoplasmic-1 (SLIC1), mRNA
NM_153338	Homo sapiens hypothetical protein FLJ90165 (FLJ90165), mRNA
NM_153339	Homo sapiens hypothetical protein FLJ90811 (FLJ90811), mRNA
NM_153340	Homo sapiens hypothetical protein MGC46534 (MGC46534), mRNA
NM_153341	Homo sapiens IBR domain containing 3 (IBRDC3), mRNA
NM_153342	Homo sapiens fasting-inducible integral membrane protein TM6P1 (FLJ9002
NM_153343	Homo sapiens ectonucleotide pyrophosphatase/phosphodiesterase 6 (ENPP
NM_153344	Homo sapiens chromosome 6 open reading frame 141 (C6orf141), mRNA
NM_153345	Homo sapiens hypothetical protein FLJ90586 (FLJ90586), mRNA
NM_153346	Homo sapiens chromosome X open reading frame 20 (CXorf20), mRNA
NM_153347	Homo sapiens hypothetical protein FLJ90119 (FLJ90119), mRNA
NM_153348	Homo sapiens F-box and WD-40 domain protein 8 (FBXW8), transcript varia
NM_153350	Homo sapiens F-box and leucine-rich repeat protein 16 (FBXL16), mRNA
NM_153353	Homo sapiens hypothetical protein MGC27085 (MGC27085), mRNA
NM_153354	Homo sapiens hypothetical protein MGC33214 (MGC33214), mRNA
NM_153355	Homo sapiens T-cell lymphoma breakpoint associated target 1 (TCBA1), mR
NM_153356	Homo sapiens hypothetical protein MGC34741 (MGC34741), mRNA
NM_153357	Homo sapiens solute carrier family 16 (monocarboxylic acid transporters), m
NM_153358	Homo sapiens hypothetical protein FLJ90396 (FLJ90396), mRNA
NM_153359	Homo sapiens hypothetical protein MGC24975 (MGC24975), mRNA
NM_153360	Homo sapiens hypothetical protein FLJ90166 (FLJ90166), mRNA
NM_153361	Homo sapiens hypothetical protein MGC42105 (MGC42105), mRNA
NM_153362	Homo sapiens protease, serine, 35 (PRSS35), mRNA
NM_153363	Homo sapiens hypothetical protein MGC42415 (MGC42415), mRNA
NM_153364	Homo sapiens hypothetical protein MGC39520 (MGC39520), mRNA
NM_153365	Homo sapiens hypothetical protein FLJ90013 (FLJ90013), mRNA
NM_153367	Homo sapiens chromosome 10 open reading frame 56 (C10orf56), mRNA
NM_153368	Homo sapiens connexin40.1 (CX40.1), mRNA
NM_153369	Homo sapiens KIAA1919 (KIAA1919), mRNA
NM_153370	Homo sapiens protease inhibitor 16 (PI16), mRNA
NM_153371	Homo sapiens ligand of numb-protein X 2 (LNX2), mRNA
NM_153373	Homo sapiens hypothetical protein MGC15875 (MGC15875), mRNA
NM_153374	Homo sapiens hypothetical protein MGC35274 (MGC35274), mRNA
NM_153375	Homo sapiens placenta-specific 2 (PLAC2), mRNA
NM_153376	Homo sapiens hypothetical protein FLJ90575 (FLJ90575), mRNA
NM_153377	Homo sapiens leucine-rich repeats and immunoglobulin-like domains 3 (LRIC
NM_153378	Homo sapiens solute carrier family 22 (organic anion/cation transporter), mei
NM_153379	Homo sapiens kringle containing transmembrane protein 1 (KREMEN1), tran
NM_153380	Homo sapiens zinc finger protein 41 (ZNF41), transcript variant 2, mRNA
NM_153381	Homo sapiens pro-melanin-concentrating hormone-like 2 (PMCHL2), mRNA
NM_153425	Homo sapiens TNFRSF1A-associated via death domain (TRADD), transcript
NM_153426	Homo sapiens paired-like homeodomain transcription factor 2 (PITX2), transcription
NM_153427	Homo sapiens paired-like homeodomain transcription factor 2 (PITX2), trans-
NM_153437	Homo sapiens outer dense fiber of sperm tails 2 (ODF2), transcript variant 2,
NM_153442	Homo sapiens G protein-coupled receptor 26 (GPR26), mRNA
NM_153443	Homo sapiens killer cell immunoglobulin-like receptor, three domains, long c
NM_153444	Homo sapiens olfactory receptor, family 5, subfamily P, member 2 (OR5P2),

NM_153445	Homo sapiens olfactory receptor, family 5, subfamily P, member 3 (OR5P3),
NM_153446	Homo sapiens UDP-GalNAc:Neu5Acalpha2-3Galbeta-R beta1,4-N-acetylgal
NM_153447	Homo sapiens NACHT, leucine rich repeat and PYD containing 5 (NALP5), n
NM_153448	Homo sapiens extraembryonic, spermatogenesis, homeobox 1-like (ESX1L),
NM_153449	Homo sapiens solute carrier family 2 (facilitated glucose transporter), membe
NM 153450	Homo sapiens lung cancer metastasis-related protein 1 (LCMR1), mRNA
NM_153451	Homo sapiens oral cancer overexpressed 1 (ORAOV1), mRNA
NM_153453	Homo sapiens vestigial like 2 (Drosophila) (VGLL2), transcript variant 2, mRt
NM_153454	Homo sapiens chromosome 21 open reading frame 86 (C21orf86), mRNA
NM_153456	Homo sapiens heparan sulfate 6-O-sulfotransferase 3 (HS6ST3), mRNA
NM_153460	Homo sapiens interleukin 17 receptor C (IL17RC), transcript variant 2, mRN/
NM_153461	Homo sapiens interleukin 17 receptor C (IL17RC), transcript variant 1, mRN/
NM 153462	Homo sapiens interleukin 17 receptor C (IL17RC), transcript variant 4, mRN/
NM_153463	Homo sapiens interleukin 17 receptor C (IL17RC), transcript variant 5, mRN/
NM 153464	Homo sapiens interleukin enhancer binding factor 3, 90kDa (ILF3), transcript
NM_153477	Homo sapiens ubiquitously-expressed transcript (UXT), transcript variant 1, r
NM 153478	Homo sapiens chondrosarcoma associated gene 1 (CSAG1), transcript varia
NM 153479	Homo sapiens chondrosarcoma associated gene 1 (CSAG1), transcript varia
NM 153480	Homo sapiens interleukin 17 receptor E (IL17RE), transcript variant 1, mRNA
NM 153481	Homo sapiens interleukin 17 receptor E (IL17RE), transcript variant 2, mRNA
NM_153482	Homo sapiens interleukin 17 receptor E (IL17RE), transcript variant 4, mRNA
NM 153483	Homo sapiens interleukin 17 receptor E (IL17RE), transcript variant 5, mRNA
NM 153485	Homo sapiens nucleoporin 155kDa (NUP155), transcript variant 1, mRNA
NM 153486	Homo sapiens lactate dehydrogenase D (LDHD), nuclear gene encoding mit
NM 153487	Homo sapiens MAM domain containing glycosylphosphatidylinositol anchor 1
NM 153488	Homo sapiens melanoma antigen, family A, 2B (MAGEA2B), mRNA
NM_153490	Homo sapiens keratin 13 (KRT13), transcript variant 1, mRNA
NM_153497	Homo sapiens mitogen-activated protein kinase kinase kinase 7 interacting r
NM_153498	Homo sapiens calcium/calmodulin-dependent protein kinase ID (CAMK1D), t
NM 153499	Homo sapiens calcium/calmodulin-dependent protein kinase kinase 2, beta (
NM 153500	Homo sapiens calcium/calmodulin-dependent protein kinase kinase 2, beta (
NM_153603	Homo sapiens component of oligomeric golgi complex 7 (COG7), mRNA
NM 153604	Homo sapiens myocardin (MYOCD), mRNA
NM 153606	Homo sapiens hypothetical protein FLJ32796 (FLJ32796), mRNA
NM 153607	Homo sapiens adult retina protein (LOC153222), mRNA
NM_153608	Homo sapiens hypothetical protein MGC17986 (MGC17986), mRNA
NM 153609	Homo sapiens transmembrane protease, serine 6 (TMPRSS6), mRNA
NM_153610	Homo sapiens cardiomyopathy associated 5 (CMYA5), mRNA
NM 153611	Homo sapiens hypothetical protein MGC20446 (MGC20446), mRNA
NM 153612	Homo sapiens heparan sulfate (glucosamine) 3-O-sulfotransferase 5 (HS3S1
NM 153613	Homo sapiens PISC domain containing hypothetical protein (LOC254531), m
NM_153614	Homo sapiens testis spermatogenesis apoptosis-related protein 6 (TSARG6)
NM_153615	Homo sapiens Ral-GDS related protein Rgr (Rgr), mRNA
NM 153616	Homo sapiens sema domain, transmembrane domain (TM), and cytoplasmic
NM_153617	Homo sapiens sema domain, transmembrane domain (TM), and cytoplasmic
NM_153618	Homo sapiens sema domain, transmembrane domain (TM), and cytoplasmic
NM_153619	Homo sapiens sema domain, transmembrane domain (TM), and cytoplasmic
NM_153620	Homo sapiens homeo box A1 (HOXA1), transcript variant 2, mRNA
NM_153631	Homo sapiens homeo box A3 (HOXA3), transcript variant 2, mRNA
NM_153632	Homo sapiens homeo box A3 (HOXA3), transcript variant 3, mRNA
NM_153633	Homo sapiens homeo box C4 (HOXC4), transcript variant 2, mRNA
NM_153634	Homo sapiens copine VIII (CPNE8), mRNA
NM_153635	Homo sapiens copine family member (LOC151835), mRNA
NM_153636	Homo sapiens copine VII (CPNE7), transcript variant 1, mRNA
NM 153637	Homo sapiens pantothenate kinase 2 (Hallervorden-Spatz syndrome) (PANK
NM_153638	Homo sapiens pantothenate kinase 2 (Hallervorden-Spatz syndrome) (PANK
NM_153639	Homo sapiens pantothenate kinase 2 (Hallervorden-Spatz syndrome) (PANK
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NM_153640	Homo sapiens pantothenate kinase 2 (Hallervorden-Spatz syndrome) (PANK
NM_153641	Homo sapiens pantothenate kinase 2 (Hallervorden-Spatz syndrome) (PANK
NM 153645	Homo sapiens nucleoporin 50kDa (NUP50), transcript variant 3, mRNA
NM_153646	Homo sapiens solute carrier family 24 (sodium/potassium/calcium exchange)
NM 153647	Homo sapiens solute carrier family 24 (sodium/potassium/calcium exchange)
NM_153648	Homo sapiens solute carrier family 24 (sodium/potassium/calcium exchange)
NM_153649	Homo sapiens tropomyosin 3 (TPM3), mRNA
	Homo sapiens forkhead box A2 (FOXA2), transcript variant 2, mRNA
NM_153675	Homo sapiens Usher syndrome 1C (autosomal recessive, severe) (USH1C),
NM_153676	
NM_153681	Homo sapiens Down syndrome critical region gene 5 (DSCR5), transcript val
NM_153682	Homo sapiens Down syndrome critical region gene 5 (DSCR5), transcript val
NM_153683	Homo sapiens klotho (KL), transcript variant 2, mRNA
NM_153684	Homo sapiens nucleoporin 50kDa (NUP50), transcript variant 1, mRNA
NM_153685	Homo sapiens hypothetical protein DKFZp547D2210 (DKFZp547D2210), mF
NM_153686	Homo sapiens transcription factor MLR1 (MLR1), mRNA
NM_153687	Homo sapiens hypothetical protein FLJ31051 (FLJ31051), mRNA
NM_153688	Homo sapiens zinc finger protein 1 homolog (mouse) (ZFP1), mRNA
NM 153689	Homo sapiens hypothetical protein FLJ38973 (FLJ38973), mRNA
NM_153690	Homo sapiens family with sequence similarity 43, member A (FAM43A), mR1
NM 153691	Homo sapiens hypothetical protein FLJ90036 (FLJ90036), mRNA
NM_153692	Homo sapiens hypothetical protein FLJ90724 (FLJ90724), mRNA
NM 153693	Homo sapiens homeo box C6 (HOXC6), transcript variant 2, mRNA
NM_153694	Homo sapiens synaptonemal complex protein 3 (SYCP3), mRNA
NM 153695	Homo sapiens sinc finger protein 367 (ZNF367), mRNA
NM 153696	Homo sapiens zinte linger protein 307 (Zint 307), mittal Homo sapiens prostate-specific membrane antigen-like protein (PSMAL/GCF
_	Homo sapiens hypothetical protein DKFZp434D2328 (LOC91526), mRNA
NM_153697	
NM_153699	Homo sapiens glutathione S-transferase A5 (GSTA5), mRNA
NM_153700	Homo sapiens stereocilin (STRC), mRNA
NM_153701	Homo sapiens interleukin 12 receptor, beta 1 (IL12RB1), transcript variant 2,
NM_153702	Homo sapiens hypothetical protein MGC10084 (MGC10084), mRNA
NM_153703	Homo sapiens podocan (PODN), mRNA
NM_153704	Homo sapiens hypothetical protein MGC26979 (MGC26979), mRNA
NM_153705	Homo sapiens KDEL (Lys-Asp-Glu-Leu) containing 2 (KDELC2), mRNA
NM_153706	Homo sapiens hypothetical protein MGC33648 (MGC33648), mRNA
NM_153707	Homo sapiens chromosome 9 open reading frame 138 (C9orf138), mRNA
NM_153708	Homo sapiens hypothetical protein MGC35450 (MGC35450), mRNA
NM_153709	Homo sapiens hypothetical protein MGC40168 (MGC40168), mRNA
NM_153711	Homo sapiens chromosome 6 open reading frame 188 (C6orf188), mRNA
NM_153712	Homo sapiens tubulin tyrosine ligase (TTL), mRNA
NM_153713	Homo sapiens hypothetical protein MGC46719 (MGC46719), mRNA
NM_153714	Homo sapiens chromosome 10 open reading frame 67 (C10orf67), mRNA
NM_153715	Homo sapiens homeo box A10 (HOXA10), transcript variant 2, mRNA
NM_153716	Homo sapiens heat shock transcription factor, Y linked 2 (HSFY2), transcript
NM_153717	Homo sapiens Ellis van Creveld syndrome (EVC), transcript variant 2, mRNA
NM_153718	Homo sapiens nucleoporin 62kDa (NUP62), transcript variant 3, mRNA
NM_153719	Homo sapiens nucleoporin 62kDa (NUP62), transcript variant 1, mRNA
NM 153741	Homo sapiens dolichyl-phosphate mannosyltransferase polypeptide 3 (DPM:
NM_153742	Homo sapiens cystathionase (cystathionine gamma-lyase) (CTH), transcript
_	Homo sapiens zinc finger, DHHC domain containing 14 (ZDHHC14), mRNA
NM_153746	Homo sapiens phosphatidylinositol glycan, class C (PIGC), transcript variant
NM_153747	Homo sapiens priospriatidy/inositor grycari, class 6 (PiGG), transcript variant Homo sapiens potassium voltage-gated channel, Shaw-related subfamily, mo
NM_153748	
NM_153750	Homo sapiens chromosome 21 open reading frame 81 (C21orf81), mRNA
NM_153752	Homo sapiens chromosome 21 open reading frame 84 (C21orf84), mRNA
NM_153754	Homo sapiens chromosome 21 open reading frame 88 (C21orf88), mRNA
NM_153756	Homo sapiens fibronectin type III domain containing 5 (FNDC5), mRNA
NM_153757	Homo sapiens nucleosome assembly protein 1-like 5 (NAP1L5), mRNA
NM_153758	Homo sapiens interleukin 19 (IL19), transcript variant 1, mRNA

NM_153759	Homo sapiens DNA (cytosine-5-)-methyltransferase 3 alpha (DNMT3A), trans
NM_153763	Homo sapiens potassium voltage-gated channel, Shaw-related subfamily, mo
NM_153764	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 1
NM_153765	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 1
NM_153766	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 1
NM_153767	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 1
NM_153768	Homo sapiens calcium-binding tyrosine-(Y)-phosphorylation regulated (fibrou
NM_153769	Homo sapiens calcium-binding tyrosine-(Y)-phosphorylation regulated (fibrou
NM_153770	Homo sapiens calcium-binding tyrosine-(Y)-phosphorylation regulated (fibrou
NM_153773	Homo sapiens chromosome 21 open reading frame 99 (C21orf99), mRNA
NM_153809	Homo sapiens TAF1-like RNA polymerase II, TATA box binding protein (TBP
NM_153810	Homo sapiens chromosome 10 open reading frame 46 (C10orf46), mRNA
NM_153811	Homo sapiens solute carrier family 38, member 6 (SLC38A6), mRNA
NM_153812	Homo sapiens PHD finger protein 13 (PHF13), mRNA
NM_153813	Homo sapiens zinc finger protein, multitype 1 (ZFPM1), mRNA
NM_153815	Homo sapiens Ras protein-specific guanine nucleotide-releasing factor 1 (R/
NM_153816	Homo sapiens sorting nexin 14 (SNX14), transcript variant 1, mRNA
NM_153818	Homo sapiens peroxisome biogenesis factor 10 (PEX10), transcript variant 1
NM_153819	Homo sapiens RAS guanyl releasing protein 2 (calcium and DAG-regulated)
NM_153822	Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase,
NM_153823	Homo sapiens germ cell associated 1 (GSG1), mRNA
NM_153824	Homo sapiens pyrroline-5-carboxylate reductase 1 (PYCR1), transcript varia
NM_153825	Homo sapiens soluble liver antigen/liver pancreas antigen (SLA/LP), mRNA
NM_153826	Homo sapiens membrane cofactor protein (CD46, trophoblast-lymphocyte cr
NM_153827	Homo sapiens misshapen/NIK-related kinase (MINK), transcript variant 3, ml
NM_153828	Homo sapiens reticulon 4 (RTN4), transcript variant 2, mRNA
NM_153831	Homo sapiens PTK2 protein tyrosine kinase 2 (PTK2), transcript variant 1, m
NM_153832	Homo sapiens G protein-coupled receptor 161 (GPR161), mRNA
NM_153833	Homo sapiens H1 histone family, member O, oocyte-specific (H1FOO), mRN
NM_153834	Homo sapiens G protein-coupled receptor 112 (GPR112), mRNA
NM_153835 NM_153836	Homo sapiens G protein-coupled receptor 113 (GPR113), mRNA Homo sapiens cellular repressor of E1A-stimulated genes 2 (CREG2), mRNA
NM_153837	Homo sapiens G protein-coupled receptor 114 (GPR114), mRNA
NM_153838	Homo sapiens G protein-coupled receptor 115 (GPR115), mRNA
NM_153839	Homo sapiens G protein-coupled receptor 111 (GPR111), mRNA
NM 153840	Homo sapiens G protein-coupled receptor 110 (GPR110), mRNA
NM_156036	Homo sapiens homeo box B6 (HOXB6), transcript variant 3, mRNA
NM 156037	Homo sapiens homeo box B6 (HOXB6), transcript variant 1, mRNA
NM 156038	Homo sapiens colony stimulating factor 3 receptor (granulocyte) (CSF3R), tra
NM_156039	Homo saplens colony stimulating factor 3 receptor (granulocyte) (CSF3R), tra
NM 170587	Homo sapiens regulator of G-protein signalling 20 (RGS20), mRNA
NM_170589	Homo sapiens AF15q14 protein (AF15Q14), mRNA
NM_170600	Homo sapiens SH2 domain containing 3C (SH2D3C), mRNA
NM_170601	Homo sapiens cytosolic sialic acid 9-O-acetylesterase homolog (CSE-C), mF
NM 170602	Homo sapiens RAS guanyl releasing protein 4 (RASGRP4), transcript varian
NM_170603	Homo sapiens RAS guanyl releasing protein 4 (RASGRP4), transcript varian
NM_170604	Homo sapiens RAS guanyl releasing protein 4 (RASGRP4), transcript varian
NM_170605	Homo sapiens InaD-like protein (INADL), transcript variant 1, mRNA
NM_170606	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia 3 (MLL3), mRNA
NM_170607	Homo sapiens transcription factor-like 4 (TCFL4), transcript variant 3, mRNA
NM_170609	Homo sapiens cysteine-rich secretory protein 1 (CRISP1), transcript variant 2
NM_170610	Homo sapiens histone 1, H2ba (HIST1H2BA), mRNA
NM_170662	Homo sapiens Cas-Br-M (murine) ecotropic retroviral transforming sequence
NM_170663	Homo sapiens misshapen/NIK-related kinase (MINK), transcript variant 2, ml
NM_170664	Homo sapiens otoancorin (OTOA), mRNA
NM_170665	Homo sapiens ATPase, Ca++ transporting, cardiac muscle, slow twitch 2 (AT
NM_170672	Homo sapiens RAS guanyl releasing protein 3 (calcium and DAG-regulated)

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Homo sapiens Meis1, myeloid ecotropic viral integration site 1 homolog 2 (m
NM_170674
            Homo sapiens Meis1, myeloid ecotropic viral integration site 1 homolog 2 (m
NM 170675
NM_170676
            Homo sapiens Meis1, myeloid ecotropic viral integration site 1 homolog 2 (m-
NM 170677
            Homo sapiens Meis1, myeloid ecotropic viral integration site 1 homolog 2 (m-
NM 170678
            Homo sapiens integrin beta 1 binding protein 3 (ITGB1BP3), mRNA
            Homo sapiens S-phase kinase-associated protein 1A (p19A) (SKP1A), trans-
NM 170679
NM 170681
            Homo sapiens mitochondrial elongation factor G2 (EFG2), nuclear gene enco
NM 170682
            Homo sapiens purinergic receptor P2X, ligand-gated ion channel, 2 (P2RX2)
            Homo sapiens purinergic receptor P2X, ligand-gated ion channel, 2 (P2RX2)
NM_170683
            Homo saplens tachykinin 4 (hemokinin) (TAC4), mRNA
NM_170685
NM_170686
            Homo sapiens zinc finger protein 398 (ZNF398), transcript variant 1, mRNA
NM_170691
            Homo sapiens mitochondrial elongation factor G2 (EFG2), nuclear gene enco
NM_170692
            Homo sapiens RAS protein activator like 2 (RASAL2), transcript variant 2, ml
            Homo sapiens serum/glucocorticoid regulated kinase 2 (SGK2), transcript va
NM_170693
NM_170694
            Homo sapiens serine hydrolase-like (SERHL), mRNA
NM_170695
            Homo sapiens TGFB-induced factor (TALE family homeobox) (TGIF), transcr
            Homo sapiens aldehyde dehydrogenase 1 family, member A2 (ALDH1A2), tr
NM 170696
            Homo sapiens aldehyde dehydrogenase 1 family, member A2 (ALDH1A2), tr
NM_170697
NM_170698
            Homo sapiens similar to CGI-96 (dJ222E13.2), mRNA
NM_170699
            Homo sapiens G protein-coupled bile acid receptor 1 (GPBAR1), mRNA
NM 170705
            Homo sapiens isoprenylcysteine carboxyl methyltransferase (ICMT), transcrip
NM 170706
            Homo sapiens nicotinamide nucleotide adenylyltransferase 2 (NMNAT2), trar
NM 170707
             Homo sapiens lamin A/C (LMNA), transcript variant 1, mRNA
NM 170708
             Homo sapiens lamin A/C (LMNA), transcript variant 3, mRNA
             Homo sapiens serum/glucocorticoid regulated kinase-like (SGKL), transcript
NM 170709
            Homo sapiens WD repeat domain 17 (WDR17), transcript variant 1, mRNA
NM_170710
            Homo sapiens DAZ associated protein 1 (DAZAP1), transcript variant 1, mRI
NM_170711
NM_170712 Homo sapiens Ras association (RalGDS/AF-6) domain family 1 (RASSF1), to
            Homo sapiens Ras association (RalGDS/AF-6) domain family 1 (RASSF1), to
NM 170713
            Homo sapiens Ras association (RalGDS/AF-6) domain family 1 (RASSF1), to
NM 170714
NM 170715 Homo sapiens Ras association (RalGDS/AF-6) domain family 1 (RASSF1), to
NM 170716 Homo sapiens Ras association (RaIGDS/AF-6) domain family 1 (RASSF1), to
NM 170717 Homo sapiens Ras association (RalGDS/AF-6) domain family 1 (RASSF1), to
NM 170719 Homo sapiens chromosome 13 open reading frame 23 (C13orf23), transcript
NM 170720 Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 1
NM 170721 Homo sapiens musashi homolog 2 (Drosophila) (MSI2), transcript variant 2, I
NM_170722 Homo sapiens NOD9 protein (NOD9), transcript variant 2, mRNA
NM 170723 Homo sapiens chromodomain protein, Y-linked, 1 (CDY1), transcript variant
NM 170724 Homo sapiens polycystic kidney and hepatic disease 1 (autosomal recessive
NM_170725 Homo sapiens piggyBac transposable element derived 2 (PGBD2), mRNA
NM_170726 Homo sapiens aldehyde dehydrogenase 4 family, member A1 (ALDH4A1), n
             Homo sapiens brain-derived neurotrophic factor (BDNF), transcript variant 3,
NM_170731
NM_170732 Homo sapiens brain-derived neurotrophic factor (BDNF), transcript variant 2,
             Homo sapiens brain-derived neurotrophic factor (BDNF), transcript variant 5,
NM_170733
             Homo sapiens brain-derived neurotrophic factor (BDNF), transcript variant 6,
NM 170734
             Homo sapiens brain-derived neurotrophic factor (BDNF), transcript variant 1,
NM_170735
             Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 1
NM 170736
NM 170737
             Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 1
NM 170738
             Homo sapiens mitochondrial ribosomal protein L11 (MRPL11), nuclear gene
             Homo sapiens mitochondrial ribosomal protein L11 (MRPL11), nuclear gene
NM 170739
             Homo sapiens aldehyde dehydrogenase 5 family, member A1 (succinate-ser
NM 170740
             Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 1
NM_170741
             Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 1
NM 170742
             Homo sapiens interleukin 28 receptor, alpha (interferon, lambda receptor) (IL
NM_170743
             Homo sapiens unc-5 homolog B (C. elegans) (UNC5B), mRNA
NM_170744
NM_170745
             Homo sapiens histone 1, H2aa (HIST1H2AA), mRNA
NM 170746
             Homo sapiens chromosome 11 open reading frame 31 (C11orf31), mRNA
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NM_170750	Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase,
NM_170751	Homo sapiens chromodomain protein, Y-like (CDYL), transcript variant 2, mF
NM_170752	Homo sapiens chromodomain protein, Y-like (CDYL), transcript variant 3, mF
NM_170753	Homo sapiens piggyBac transposable element derived 3 (PGBD3), mRNA
NM_170754	Homo sapiens tensin like C1 domain containing phosphatase (TENC1), trans
NM_170768	Homo sapiens zinc finger protein 91 homolog (mouse) (ZFP91), transcript va
NM 170769	Homo sapiens ring finger protein 39 (RNF39), transcript variant 2, mRNA
NM_170770	Homo sapiens ring finger protein 39 (RNF39), transcript variant 3, mRNA
NM 170771	Homo sapiens aldehyde dehydrogenase 8 family, member A1 (ALDH8A1), tr
NM_170773	Homo sapiens Ras association (RalGDS/AF-6) domain family 2 (RASSF2), ti
NM_170774	Homo sapiens Ras association (RaIGDS/AF-6) domain family 2 (RASSF2), t
-	Homo sapiens reas association (reacise/small conductance calcium-activated
NM_170775	Homo sapiens G protein-coupled receptor 97 (GPR97), mRNA
NM_170776	
NM_170780	Homo sapiens MOX2 receptor (MOX2R), transcript variant 4, mRNA
NM_170781	Homo sapiens protein phosphatase 1, regulatory (inhibitor) subunit 11 (PPP1
NM_170782	Homo sapiens potassium intermediate/small conductance calcium-activated
NM_170783	Homo sapiens zinc ribbon domain containing, 1 (ZNRD1), transcript variant a
NM_170784	Homo sapiens McKusick-Kaufman syndrome (MKKS), transcript variant 2, m
NM_171825	Homo sapiens calcium/calmodulin-dependent protein kinase (CaM kinase) II
NM_171827	Homo sapiens CD8 antigen, alpha polypeptide (p32) (CD8A), transcript varia
NM_171828	Homo sapiens potassium large conductance calcium-activated channel, subt
NM_171829	Homo sapiens potassium large conductance calcium-activated channel, subl
NM_171830	Homo sapiens potassium large conductance calcium-activated channel, subl
NM_171846	Homo sapiens lactamase, beta (LACTB), nuclear gene encoding mitochondr
NM_171982	Homo sapiens tripartite motif-containing 35 (TRIM35), transcript variant 2, ml
NM_171997	Homo sapiens ubiquitin specific protease 2 (USP2), transcript variant 2, mRN
NM_171998	Homo sapiens RAB39B, member RAS oncogene family (RAB39B), mRNA
NM_171999	Homo sapiens sal-like 3 (Drosophila) (SALL3), mRNA
NM_172000	Homo sapiens putative membrane protein HE9 (HE9), mRNA
NM_172002	Homo sapiens J-type co-chaperone HSC20 (HSC20), mRNA
NM_172003	Homo sapiens COBW domain containing 2 (CBWD2), mRNA
NM_172004	Homo sapiens dendritic cell-associated lectin-1 (DCAL1), mRNA
NM_172005	Homo sapiens WAP four-disulfide core domain 13 (WFDC13), mRNA
NM_172006	Homo sapiens WAP four-disulfide core domain 10B (WFDC10B), transcript v
NM_172014	Homo sapiens tumor necrosis factor (ligand) superfamily, member 14 (TNFS
NM_172016	Homo sapiens tripartite motif-containing 39 (TRIM39), transcript variant 2, ml
NM_172020	Homo sapiens POM121 membrane glycoprotein (rat) (POM121), mRNA
NM_172024	Homo sapiens ATP-binding cassette, sub-family C (CFTR/MRP), member 13
NM_172025	Homo sapiens ATP-binding cassette, sub-family C (CFTR/MRP), member 13
NM_172026	Homo sapiens ATP-binding cassette, sub-family C (CFTR/MRP), member 13
NM_172027	Homo saplens ankyrin repeat and BTB (POZ) domain containing 1 (ABTB1),
NM_172028	Homo sapiens ankyrin repeat and BTB (POZ) domain containing 1 (ABTB1),
NM_172037	Homo sapiens retinol dehydrogenase 10 (all-trans) (RDH10), mRNA
NM_172056	Homo sapiens potassium voltage-gated channel, subfamily H (eag-related), I
NM_172057	Homo sapiens potassium voltage-gated channel, subfamily H (eag-related), I
NM_172058	Homo sapiens eyes absent homolog 1 (Drosophila) (EYA1), transcript varian
NM_172059	Homo sapiens eyes absent homolog 1 (Drosophila) (EYA1), transcript varian
NM_172060	Homo sapiens eyes absent homolog 1 (Drosophila) (EYA1), transcript varian
NM_172069	Homo sapiens pleckstrin homology domain containing, family H (with MyTH4
NM_172070	Homo sapiens similar to F10G7.10.p (KIAA2024), mRNA
NM_172078	Homo sapiens calcium/calmodulin-dependent protein kinase (CaM kinase) II
NM_172079	Homo sapiens calcium/calmodulin-dependent protein kinase (CaM kinase) II
NM_172080	Homo sapiens calcium/calmodulin-dependent protein kinase (CaM kinase) II
NM_172081	Homo sapiens calcium/calmodulin-dependent protein kinase (CaM kinase) II
NM_172082	Homo sapiens calcium/calmodulin-dependent protein kinase (CaM kinase) II
NM_172083	Homo sapiens calcium/calmodulin-dependent protein kinase (CaM kinase) II
NM_172084	Homo sapiens calcium/calmodulin-dependent protein kinase (CaM kinase) II
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NM 172087 Homo sapiens tumor necrosis factor (ligand) superfamily, member 13 (TNFS NM 172088 Homo sapiens tumor necrosis factor (ligand) superfamily, member 13 (TNFS NM 172089 Homo sapiens tumor necrosis factor (ligand) superfamily, member 12-member Homo sapiens cation channel, sperm associated 2 (CATSPER2), transcript v NM 172095 Homo sapiens cation channel, sperm associated 2 (CATSPER2), transcript v NM 172096 NM 172097 Homo sapiens cation channel, sperm associated 2 (CATSPER2), transcript v NM 172098 Homo sapiens eyes absent homolog 3 (Drosophila) (EYA3), transcript varian NM_172099 Homo sapiens CD8 antigen, beta polypeptide 1 (p37) (CD8B1), transcript vai NM_172100 Homo sapiens CD8 antigen, beta polypeptide 1 (p37) (CD8B1), transcript vai NM_172101 Homo sapiens CD8 antigen, beta polypeptide 1 (p37) (CD8B1), transcript vai Homo sapiens CD8 antigen, beta polypeptide 1 (p37) (CD8B1), transcript vai NM_172102 NM_172103 Homo sapiens eyes absent homolog 4 (Drosophila) (EYA4), transcript varian NM 172104 Homo sapiens eyes absent homolog 4 (Drosophila) (EYA4), transcript varian NM 172105 Homo sapiens eyes absent homolog 4 (Drosophila) (EYA4), transcript varian NM 172106 Homo sapiens potassium voltage-gated channel, KQT-like subfamily, membe Homo sapiens potassium voltage-gated channel, KQT-like subfamily, membe NM 172107 NM_172108 Homo sapiens potassium voltage-gated channel, KQT-like subfamily, membe NM_172109 Homo sapiens potassium voltage-gated channel, KQT-like subfamily, membe NM_172110 Homo sapiens eyes absent homolog 2 (Drosophila) (EYA2), transcript varian NM_172111 Homo sapiens eyes absent homolog 2 (Drosophila) (EYA2), transcript varian NM_172112 Homo sapiens eyes absent homolog 2 (Drosophila) (EYA2), transcript varian NM_172113 Homo sapiens eyes absent homolog 2 (Drosophila) (EYA2), transcript varian NM 172115 Homo sapiens calcium/calmodulin-dependent protein kinase (CaM kinase) II NM 172127 Homo saplens calclum/calmodulin-dependent protein kinase (CaM kinase) II NM 172128 Homo sapiens calcium/calmodulin-dependent protein kinase (CaM kinase) II NM_172130 Homo sapiens potassium voltage-gated channel, shaker-related subfamily, b NM_172131 Homo sapiens WAP four-disulfide core domain 10B (WFDC10B), transcript v NM_172138 Homo sapiens interleukin 28A (interferon, lambda 2) (IL28A), mRNA NM 172139 Homo sapiens interleukin 28B (interferon, lambda 3) (IL28B), mRNA Homo sapiens interleukin 29 (interferon, lambda 1) (IL29), mRNA NM 172140 NM 172159 Homo sapiens potassium voltage-gated channel, shaker-related subfamily, b NM 172160 Homo sapiens potassium voltage-gated channel, shaker-related subfamily, b NM 172163 Homo sapiens potassium voltage-gated channel, KQT-like subfamily, member NM_172164 Homo sapiens nuclear autoantigenic sperm protein (histone-binding) (NASP) NM_172165 Homo sapiens mutS homolog 5 (E. coli) (MSH5), transcript variant 2, mRNA NM_172166 Homo sapiens mutS homolog 5 (E. coli) (MSH5), transcript variant 4, mRNA Homo sapiens NADPH oxidase organizer 1 (NOXO1), transcript variant b, ml NM 172167 NM_172168 Homo sapiens NADPH oxidase organizer 1 (NOXO1), transcript variant c, ml NM_172169 Homo sapiens calcium/calmodulin-dependent protein kinase (CaM kinase) II NM 172170 Homo sapiens calcium/calmodulin-dependent protein kinase (CaM kinase) II Homo sapiens calcium/calmodulin-dependent protein klnase (CaM kinase) II NM 172171 NM_172172 Homo sapiens calcium/calmodulin-dependent protein kinase (CaM kinase) II NM_172173 Homo sapiens calcium/calmodulin-dependent protein kinase (CaM kinase) II NM_172174 Homo sapiens interleukin 15 (IL15), transcript variant 1, mRNA NM 172175 Homo sapiens interleukln 15 (IL15), transcript variant 2, mRNA NM 172177 Homo sapiens mitochondrial ribosomal protein L42 (MRPL42), nuclear gene NM_172178 Homo sapiens mitochondrial ribosomal protein L42 (MRPL42), nuclear gene NM 172193 Homo sapiens kelch domain containing 1 (KLHDC1), mRNA NM 172195 Homo sapiens eukaryotic translation initiation factor 2B, subunit 4 delta, 67kl NM 172196 Homo sapiens TFIIA-alpha/beta-like factor (ALF), transcript variant 2, mRNA NM_172197 Homo sapiens advanced glycosylation end product-specific receptor (AGER) NM_172198 Homo sapiens potassium voltage-gated channel, Shal-related subfamily, mei Homo sapiens adenylate kinase 2 (AK2), transcript variant AK2C, mRNA NM_172199 NM 172200 Homo sapiens interleukin 15 receptor, alpha (IL15RA), transcript variant 2, m NM 172201 Homo sapiens potassium voltage-gated channel, lsk-related family, member NM 172206 Homo sapiens calcium/calmodulin-dependent protein kinase kinase 1, alpha NM 172207 Homo sapiens calcium/calmodulin-dependent protein kinase kinase 1, alpha

NM_172208	Homo sapiens TAP binding protein (tapasin) (TAPBP), transcript variant 2, m
NM_172209	Homo sapiens TAP binding protein (tapasin) (TAPBP), transcript variant 3, m
NM_172210	Homo sapiens colony stimulating factor 1 (macrophage) (CSF1), transcript va
NM_172211	Homo sapiens colony stimulating factor 1 (macrophage) (CSF1), transcript vi
NM_172212	Homo sapiens colony stimulating factor 1 (macrophage) (CSF1), transcript vi
NM 172213	Homo sapiens CD8 antigen, beta polypeptide 1 (p37) (CD8B1), transcript val
NM 172214	Homo sapiens calcium/calmodulin-dependent protein kinase kinase 2, beta (
NM 172215	Homo sapiens calcium/calmodulin-dependent protein kinase kinase 2, beta (
NM_172216	Homo sapiens calcium/calmodulin-dependent protein kinase kinase 2, beta (
NM 172217	Homo sapiens interleukin 16 (lymphocyte chemoattractant factor) (IL16), trar
NM 172218	Homo sapiens sperm associated antigen 1 (SPAG1), transcript variant 2, mF
NM 172219	Homo sapiens colony stimulating factor 3 (granulocyte) (CSF3), transcript va
NM_172220	Homo sapiens colony stimulating factor 3 (granulocyte) (CSF3), transcript va
NM 172225	Homo sapiens diencephalon/mesencephalon homeobox 1 (DMBX1), transcri
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NM_172226	Homo sapiens calcium/calmodulin-dependent protein kinase kinase 2, beta (
NM_172229	Homo sapiens kringle containing transmembrane protein 2 (KREMEN2), tran
NM_172230	Homo sapiens synovial apoptotis inhibitor 1, synoviolin (SYVN1), transcript v
NM_172231	Homo sapiens splicing factor 4 (SF4), transcript variant a, mRNA
NM_172232	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 5 (ABC/
NM_172234	Homo sapiens Interleukin 17 receptor B (IL17RB), transcript variant 2, mRNA
NM_172236	Homo sapiens protein O-fucosyltransferase 1 (POFUT1), transcript variant 2,
NM_172238	Homo sapiens transcription factor AP-2 beta (activating enhancer binding pro
NM_172239	Homo sapiens exonuclease GOR (GOR), mRNA
NM_172240	Homo sapiens TUWD12 (TUWD12), mRNA
NM_172241	Homo sapiens cutaneous T-cell lymphoma-associated antigen 1 (CTAGE1),
NM_172242	Homo sapiens sperm associated antigen 6 (SPAG6), transcript variant 2, mF
NM_172244	Homo sapiens sarcoglycan, delta (35kDa dystrophin-associated glycoprotein
NM_172245	Homo sapiens colony stimulating factor 2 receptor, alpha, low-affinity (granul
NM_172246	Homo sapiens colony stimulating factor 2 receptor, alpha, low-affinity (granul
NM_172247	Homo sapiens colony stimulating factor 2 receptor, alpha, low-affinity (granul
NM_172248	Homo sapiens colony stimulating factor 2 receptor, alpha, low-affinity (granul
NM_172249	Homo sapiens colony stimulating factor 2 receptor, alpha, low-affinity (granul
NM_172250	Homo sapiens methylmalonic aciduria (cobalamin deficiency) type A (MMAA
NM_172251	Homo sapiens mitochondrial ribosomal protein L54 (MRPL54), nuclear gene
NM_172311	Homo sapiens stoned B/TFIIA-alpha/beta-like factor (SALF), mRNA
NM_172312	Homo sapiens sperm associated antigen 8 (SPAG8), transcript variant 2, mF
NM_172313	Homo sapiens colony stimulating factor 3 receptor (granulocyte) (CSF3R), tra
NM_172314	Homo sapiens interleukin 17E (IL17E), transcript variant 2, mRNA
NM_172315	Homo sapiens Meis1, myeloid ecotropic viral integration site 1 homolog 2 (m
NM_172316	Homo sapiens Meis1, myeloid ecotropic viral integration site 1 homolog 2 (m
NM_172318	Homo sapiens potassium voltage-gated channel, subfamily G, member 1 (KC
NM_172337	Homo sapiens orthodenticle homolog 2 (Drosophila) (OTX2), transcript varial
NM_172341	Homo sapiens presenilin enhancer 2 (PEN2), mRNA
NM_172343	Homo sapiens interleukin 17F (IL17F), transcript variant 2, mRNA
NM_172344	Homo sapiens potassium voltage-gated channel, subfamily G, member 3 (KC
NM_172345	Homo sapiens sperm associated antigen 9 (SPAG9), transcript variant 2, mF
NM_172346	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 6 (ABC4
NM_172347	Homo sapiens potassium voltage-gated channel, subfamily G, member 4 (KC
NM_172348	Homo sapiens interleukin 4 (IL4), transcript variant 2, mRNA
NM_172349	Homo sapiens nuclear receptor binding SET domain protein 1 (NSD1), trans-
NM_172350	Homo sapiens membrane cofactor protein (CD46, trophoblast-lymphocyte cr
NM_172351	Homo sapiens membrane cofactor protein (CD46, trophoblast-lymphocyte cr
NM_172352	Homo sapiens membrane cofactor protein (CD46, trophoblast-lymphocyte cr
NM_172353	Homo sapiens membrane cofactor protein (CD46, trophoblast-lymphocyte cr
NM_172354	Homo sapiens membrane cofactor protein (CD46, trophoblast-lymphocyte cr
NM_172355	Homo sapiens membrane cofactor protein (CD46, trophoblast-lymphocyte cr
NM_172356	Homo sapiens membrane cofactor protein (CD46, trophoblast-lymphocyte cr

NM_172357	Homo sapiens membrane cofactor protein (CD46, trophoblast-lymphocyte cr
NM_172358	Homo sapiens membrane cofactor protein (CD46, trophoblast-lymphocyte cn
NM_172359	Homo sapiens membrane cofactor protein (CD46, trophoblast-lymphocyte cr
NM_172360	Homo sapiens membrane cofactor protein (CD46, trophoblast-lymphocyte cr
NM_172361	Homo sapiens membrane cofactor protein (CD46, trophoblast-lymphocyte cr
NM_172362	Homo sapiens potassium voltage-gated channel, subfamily H (eag-related), I
NM_172364	Homo sapiens calcium channel, voltage-dependent, alpha 2/delta subunit 4 (
NM_172365	Homo sapiens chromosome 14 open reading frame 50 (C14orf50), mRNA
NM_172366	Homo sapiens F-box protein 16 (FBXO16), mRNA
NM 172367	Homo sapiens tumor suppressor candidate 5 (TUSC5), mRNA
NM_172369	Homo sapiens complement component 1, q subcomponent, gamma polypep
NM 172370	Homo sapiens D-amino acid oxidase activator (DAOA), mRNA
NM_172373	Homo sapiens E74-like factor 1 (ets domain transcription factor) (ELF1), mRI
NM_172374	Homo sapiens interleukin 4 induced 1 (IL4I1), transcript variant 2, mRNA
NM 172375	Homo sapiens potassium voltage-gated channel, subfamily H (eag-related), I
NM_172376	Homo sapiens potassium voltage-gated channel, subfamily H (eag-related), I
NM 172377	Homo sapiens cancer/testis antigen 2 (CTAG2), transcript variant 1, mRNA
NM 172386	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 9 (ABC4
NM 172387	Homo sapiens nuclear factor of activated T-cells, cytoplasmic, calcineurin-de
NM_172388	Homo sapiens nuclear factor of activated T-cells, cytoplasmic, calcineurin-de
NM 172389	Homo sapiens nuclear factor of activated T-cells, cytoplasmic, calcineurin-de
NM_172390	Homo sapiens nuclear factor of activated T-cells, cytoplasmic, calcineurin-de
NM 173039	Homo sapiens aquaporin 11 (AQP11), mRNA
NM 173042	Homo sapiens interleukin 18 binding protein (IL18BP), transcript variant A, m
NM_173043	Homo sapiens interleukin 18 binding protein (IL18BP), transcript variant B, m
NM 173044	Homo sapiens interleukin 18 binding protein (IL18BP), transcript variant D, m
NM_173050	Homo sapiens signal peptide, CUB domain, EGF-like 1 (SCUBE1), mRNA
NM 173054	Homo sapiens reelin (RELN), transcript variant 2, mRNA
NM 173055	Homo sapiens zonadhesin (ZAN), transcript variant 1, mRNA
NM_173056	Homo sapiens zonadhesin (ZAN), transcript variant 2, mRNA
NM 173057	Homo sapiens zonadhesin (ZAN), transcript variant 4, mRNA
NM 173058	Homo sapiens zonadhesin (ZAN), transcript variant 5, mRNA
NM_173059	Homo sapiens zonadhesin (ZAN), transcript variant 6, mRNA
NM_173060	Homo sapiens calpastatin (CAST), transcript variant 2, mRNA
NM 173061	Homo sapiens calpastatin (CAST), transcript variant 3, mRNA
NM_173062	Homo sapiens calpastatin (CAST), transcript variant 4, mRNA
NM 173064	Homo sapiens interleukin 28 receptor, alpha (interferon, lambda receptor) (IL
NM_173065	Homo sapiens interleukin 28 receptor, alpha (interferon, lambda receptor) (IL
NM 173073	Homo sapiens solute carrier family 35, member C2 (SLC35C2), transcript va
NM_173074	Homo sapiens phosphatidylinositol glycan, class F (PIGF), transcript variant
NM_173075	Homo sapiens amyloid beta (A4) precursor protein-binding, family B, membe
NM_173076	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 12 (ABC
NM_173077	Homo sapiens carboxypeptidase O (CPO), mRNA
NM_173078	Homo sapiens SLIT and NTRK-like family, member 4 (SLITRK4), mRNA
NM_1730 7 9	Homo sapiens RUN domain containing 1 (RUNDC1), mRNA
NM_173080	Homo sapiens small proline rich protein 4 (SPRR4), mRNA
NM_173081	Homo sapiens armadillo repeat containing 3 (ARMC3), mRNA
NM_173082	Homo sapiens SNF2 histone linker PHD RING helicase (SHPRH), mRNA
NM_173083	Homo sapiens TUDOR gene similar (TGS), mRNA
NM_173084	
NM_173086	Homo sapiens keratin 6E (KRT6E), mRNA
NM_173087	Homo sapiens calpain 3, (p94) (CAPN3), transcript variant 3, mRNA
NM_173088	Homo sapiens calpain 3, (p94) (CAPN3), transcript variant 4, mRNA
NM_173089	Homo sapiens calpain 3, (p94) (CAPN3), transcript variant 5, mRNA
NM_173090	Homo sapiens calpain 3, (p94) (CAPN3), transcript variant 6, mRNA
NM_173091	Homo sapiens nuclear factor of activated T-cells, cytoplasmic, calcineurin-de
NM_173092	Homo sapiens potassium voltage-gated channel, subfamily H (eag-related), I
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NM_173156	Homo sapiens chromosome 1 open reading frame 16 (C1orf16), transcript va
NM_173157	Homo sapiens nuclear receptor subfamily 4, group A, member 1 (NR4A1), tra
NM_173158	Homo sapiens nuclear receptor subfamily 4, group A, member 1 (NR4A1), tra
NM_173159	Homo sapiens neuronal PAS domain protein 3 (NPAS3), mRNA
NM 173160	Homo sapiens FXYD domain containing ion transport regulator 4 (FXYD4), n
NM 173161	Homo sapiens interleukin 1 family, member 10 (theta) (IL1F10), transcript va
NM 173162	Homo sapiens potassium voltage-gated channel, subfamily H (eag-related), I
NM_173163	Homo sapiens nuclear factor of activated T-cells, cytoplasmic, calcineurin-de
NM 173164	Homo sapiens nuclear factor of activated T-cells, cytoplasmic, calcineurin-de
NM_173165	Homo sapiens nuclear factor of activated T-cells, cytoplasmic, calcineurin-de
NM 173167	Homo sapiens cardiomyopathy associated 4 (CMYA4), mRNA
NM_173170	Homo sapiens cardiomyopathy accordance 4 (Old 1744), first to the Homo sapiens interleukin 1 family, member 5 (delta) (IL1F5), transcript varial
NM 173171	Homo sapiens nuclear receptor subfamily 4, group A, member 2 (NR4A2), tra
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NM_173172	Homo sapiens nuclear receptor subfamily 4, group A, member 2 (NR4A2), tra
NM_173173	Homo sapiens nuclear receptor subfamily 4, group A, member 2 (NR4A2), tra
NM_173174	Homo sapiens PTK2B protein tyrosine kinase 2 beta (PTK2B), transcript vari
NM_173175	Homo sapiens PTK2B protein tyrosine kinase 2 beta (PTK2B), transcript vari
NM_173176	Homo sapiens PTK2B protein tyrosine kinase 2 beta (PTK2B), transcript vari
NM_173177	Homo sapiens nuclear DNA-binding protein (C1D), transcript variant 2, mRN.
NM_173178	Homo sapiens interleukin 1 family, member 8 (eta) (IL1F8), transcript variant
NM_173179	Homo sapiens solute carrier family 35, member C2 (SLC35C2), transcript va
NM_173191	Homo sapiens Kv channel interacting protein 2 (KCNIP2), transcript variant 2
NM_173192	Homo sapiens Kv channel interacting protein 2 (KCNIP2), transcript variant 3
NM_173193	Homo sapiens Kv channel interacting protein 2 (KCNIP2), transcript variant 4
NM_173194	Homo sapiens Kv channel interacting protein 2 (KCNIP2), transcript variant 5
NM_173195	Homo sapiens Kv channel interacting protein 2 (KCNIP2), transcript variant 6
NM_173197	Homo sapiens Kv channel interacting protein 2 (KCNIP2), transcript variant 7
NM_173198	Homo sapiens nuclear receptor subfamily 4, group A, member 3 (NR4A3), tra
NM_173199	Homo sapiens nuclear receptor subfamily 4, group A, member 3 (NR4A3), tra
NM_173200	Homo sapiens nuclear receptor subfamily 4, group A, member 3 (NR4A3), tra
NM_173201	Homo sapiens ATPase, Ca++ transporting, cardiac muscle, fast twitch 1 (ATI
NM_173202	Homo sapiens interleukin 1 family, member 7 (zeta) (IL1F7), transcript variar
NM_173203	Homo sapiens interleukin 1 family, member 7 (zeta) (IL1F7), transcript variar
NM_173204	Homo sapiens interleukin 1 family, member 7 (zeta) (IL1F7), transcript variar
NM_173205	Homo sapiens interleukin 1 family, member 7 (zeta) (IL1F7), transcript variar
NM 173206	Homo sapiens protein inhibitor of activated STAT, 2 (PIAS2), transcript variar
NM_173207	Homo sapiens TGFB-induced factor (TALE family homeobox) (TGIF), transci
NM_173208	Homo sapiens TGFB-induced factor (TALE family homeobox) (TGIF), transci
NM_173209	Homo sapiens TGFB-induced factor (TALE family homeobox) (TGIF), transci
NM 173210	Homo sapiens TGFB-induced factor (TALE family homeobox) (TGIF), transci
NM 173211	Homo sapiens TGFB-induced factor (TALE family homeobox) (TGIF), transci
NM_173213	Homo sapiens keratin 23 (histone deacetylase inducible) (KRT23), transcript
NM_173214	Homo saplens nuclear factor of activated T-cells 5, tonicity-responsive (NFA
NM 173215	Homo sapiens nuclear factor of activated T-cells 5, tonicity-responsive (NFA
NM 173216	Homo sapiens sialyltransferase 1 (beta-galactoside alpha-2,6-sialyltransferas
NM 173217	Homo sapiens sialyltransferase 1 (beta-galactoside alpha-2,6-sialyltransferas
NM_173341	Homo sapiens PHD finger protein 7 (PHF7), transcript variant 2, mRNA
NM_173342	Homo sapiens Kv channel interacting protein 2 (KCNIP2), transcript variant 8
NM 173343	Homo sapiens interleukin 1 receptor, type II (IL1R2), transcript variant 2, mR
NM_173344	Homo sapiens sialyltransferase 4A (beta-galactoside alpha-2,3-sialyltransfer
NM 173351	Homo sapiens olfactory receptor, family 6, subfamily B, member 3 (OR6B3),
NM_173352	Homo sapiens keratin 5b (K5B), mRNA
NM_173352	Homo sapiens tryptophan hydroxylase 2 (TPH2), mRNA
NM_173354	Homo sapiens SNF1-like kinase (SNF1LK), mRNA
NM_173355	Homo sapiens uridine phosphorylase 2 (UPP2), mRNA
NM_173357	Homo sapiens synovial sarcoma, X breakpoint 6 (SSX6), mRNA
NM_173358	Homo sapiens synovial sarcoma, X breakpoint 7 (SSX7), mRNA
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NM_173360	Homo sapiens spermatogenesis associated 9 (SPATA9), transcript variant 2.
NM_173362	Homo sapiens LOC317671 (LOC317671), mRNA
NM_173452	Homo sapiens ficolin (collagen/fibrinogen domain containing) 3 (Hakata antig
NM_173454	Homo sapiens phosphodiesterase 8A (PDE8A), transcript variant 2, mRNA
NM_173455	Homo sapiens phosphodiesterase 8A (PDE8A), transcript variant 3, mRNA
NM_173456	Homo sapiens phosphodiesterase 8A (PDE8A), transcript variant 4, mRNA
NM_173457	Homo sapiens phosphodiesterase 8A (PDE8A), transcript variant 5, mRNA
NM_173459	Homo sapiens interleukin 1 receptor-like 1 (IL1RL1), transcript variant 3, mRI
NM_173460	Homo sapiens defensin, beta 119 (DEFB119), transcript variant 2, mRNA
NM_173462	Homo sapiens papilin, proteoglycan-like sulfated glycoprotein (PAPLN), mRN
NM_173463	Homo sapiens hypothetical protein DKFZp761B107 (DKFZp761B107), mRN/
NM_173464	Homo sapiens I(3)mbt-like 4 (Drosophila) (L3MBTL4), mRNA
NM_173465	Homo sapiens collagen, type XXIII, alpha 1 (COL23A1), mRNA
NM_173466	Homo sapiens hypothetical protein DKFZp434P055 (DKFZp434P055), mRN _i
NM_173467	Homo sapiens malonyl-CoA:acyl carrier protein transacylase (malonyltransfe
NM_173468	Homo sapiens MOB1, Mps One Binder kinase activator-like 1A (yeast) (MOB
NM_173469	Homo sapiens hypothetical protein LOC92912 (LOC92912), mRNA
NM_173470	Homo sapiens transmembrane protein 32 (TMEM32), mRNA
NM_173471	Homo sapiens solute carrier family 25, member 26 (SLC25A26), mRNA
NM_173472	Homo sapiens hypothetical protein MGC40179 (MGC40179), mRNA
NM_173473	Homo sapiens chromosome 10 open reading frame 104 (C10orf104), mRNA
NM_173474	Homo sapiens N-terminal asparagine amidase (NTAN1), mRNA
NM_173475	Homo sapiens hypothetical protein MGC48972 (MGC48972), mRNA
NM_173476	Homo sapiens hypothetical protein FLJ34512 (FLJ34512), mRNA
NM_173477	Homo sapiens Usher syndrome 1G (autosomal recessive) (USH1G), mRNA
NM_173478	Homo sapiens hypothetical protein FLJ40137 (FLJ40137), mRNA
NM_173479	Homo sapiens hypothetical protein LOC126248 (LOC126248), mRNA
NM_173480	Homo sapiens hypothetical protein LOC126295 (LOC126295), mRNA
NM_173481	Homo sapiens chromosome 19 open reading frame 21 (C19orf21), mRNA
NM_173482	Homo sapiens hypothetical protein FLJ40365 (FLJ40365), mRNA
NM_173483	Homo sapiens hypothetical protein FLJ39501 (FLJ39501), mRNA
NM_173484	Homo sapiens hypothetical protein FLJ40160 (FLJ40160), mRNA
NM_173485	Homo sapiens chromosome 20 open reading frame 17 (C20orf17), mRNA
NM_173486	Homo sapiens hypothetical protein FLJ40298 (FLJ40298), mRNA
NM_173487	Homo sapiens hypothetical protein LOC132321 (LOC132321), mRNA
NM_173488	Homo sapiens solute carrier organic anion transporter family, member 6A1 (
NM_173489	Homo sapiens hypothetical protein FLJ40243 (FLJ40243), mRNA
NM_173490	Homo sapiens hypothetical protein LOC134285 (LOC134285), mRNA
NM_173491	Homo sapiens LSM11, U7 small nuclear RNA associated (LSM11), mRNA
NM_173492	Homo sapiens phosphatidylinositol-4-phosphate 5-kinase-like 1 (PIP5KL1), r
NM_173493	Homo sapiens PAS domain containing protein 1 (PASD1), mRNA
NM_173494	Homo sapiens hypothetical protein MGC35261 (MGC35261), mRNA
NM_173495	Homo sapiens hypothetical protein FLJ30296 (FLJ30296), mRNA Homo sapiens membrane protein, palmitoylated 7 (MAGUK p55 subfamily m
NM_173496	
NM_173497	
NM_173499	· · · · · · · · · · · · · · · · · · ·
NM_173500	Homo sapiens hypothetical protein LOC146174 (LOC146174), mRNA
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NM_173502	
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NM_173506 NM 173507	
NM 173508	
NM 173509	
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NM_173512	Homo sapiens hypothetical protein FLJ39822 (FLJ39822), mRNA
NM_173513	Homo sapiens hypothetical protein MGC43122 (MGC43122), mRNA
NM_173514	Homo sapiens hypothetical protein FLJ90709 (FLJ90709), mRNA
NM_173515	Homo sapiens membrane associated guanylate kinase interacting protein-lik
NM_173516	Homo sapiens poly(A)-specific ribonuclease (PARN)-like domain containing
NM_173517	Homo sapiens vitamin K epoxide reductase complex, subunit 1-like 1 (VKOR
NM_173518	Homo sapiens hypothetical protein FLJ25692 (FLJ25692), mRNA
NM_173519	Homo sapiens hypothetical protein MGC34646 (MGC34646), mRNA
NM_173521	Homo sapiens chromosome 9 open reading frame 84 (C9orf84), mRNA
NM_173522	Homo sapiens hypothetical protein FLJ36576 (FLJ36576), mRNA
NM_173523	Homo sapiens melanoma antigen, family B, 6 (MAGEB6), mRNA
NM_173524	Homo sapiens chromosome 10 open reading frame 64 (C10orf64), mRNA
NM_173525	Homo sapiens hypothetical protein MGC34805 (MGC34805), mRNA
NM_173526	Homo sapiens chromosome 14 open reading frame 54 (C14orf54), mRNA
NM_173527	Homo sapiens hypothetical protein FLJ38964 (FLJ38964), mRNA
NM_173528	Homo sapiens chromosome 15 open reading frame 26 (C15orf26), mRNA
NM_173529	Homo sapiens hypothetical protein MGC33382 (MGC33382), mRNA
NM_173530	Homo sapiens zinc finger protein 610 (ZNF610), mRNA
NM_173531	Homo sapiens zinc finger protein 100 (ZNF100), mRNA
NM_173532	Homo sapiens hypothetical protein FLJ35838 (FLJ35838), mRNA
NM_173533	Homo sapiens tudor domain containing 5 (TDRD5), mRNA
NM_173535	Homo sapiens C-type (calcium dependent, carbohydrate-recognition domain
NM_173536	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, gamma 1 (GAE
NM_173537	Homo sapiens GTF2l repeat domain containing 2 (GTF2lRD2), mRNA
NM_173538	Homo sapiens hypothetical protein FLJ35802 (FLJ35802), mRNA
NM_173539	Homo sapiens zinc finger protein 596 (ZNF596), mRNA
NM_173540	Homo sapiens fucosyltransferase 11 (alpha (1,3) fucosyltransferase) (FUT11
NM_173541	Homo sapiens chromosome 10 open reading frame 91 (C10orf91), mRNA
NM_173542	Homo sapiens hypothetical protein LOC196463 (LOC196463), mRNA
NM_173543	Homo sapiens hypothetical protein FLJ32844 (FLJ32844), mRNA
NM_173544	Homo sapiens B-cell novel protein 1 (BCNP1), mRNA
NM_173545	Homo sapiens chromosome 2 open reading frame 13 (C2orf13), mRNA
NM_173546	Homo sapiens hypothetical protein MGC35097 (MGC35097), mRNA
NM_173547	Homo sapiens hypothetical protein LOC201292 (LOC201292), mRNA
NM_173548	Homo sapiens zinc finger protein 584 (ZNF584), mRNA
NM_173549	Homo sapiens hypothetical protein FLJ39553 (FLJ39553), mRNA
NM_173550	Homo sapiens chromosome 9 open reading frame 93 (C9orf93), mRNA
NM_173551	Homo sapiens sterile alpha motif domain containing 6 (SAMD6), mRNA
NM_173552	Homo sapiens hypothetical protein MGC33365 (MGC33365), mRNA
NM_173553	Homo sapiens hypothetical protein FLJ25801 (FLJ25801), mRNA
NM_173554	Homo sapiens chromosome 10 open reading frame 107 (C10orf107), mRNA
NM_173555	Homo sapiens trypsin domain containing 1 (TYSND1), mRNA
NM_173556	Homo sapiens hypothetical protein MGC34732 (MGC34732), mRNA
NM_173557	Homo sapiens ring finger protein 152 (RNF152), mRNA
NM_173558	Homo sapiens FGD1 family, member 2 (FGD2), mRNA
NM_173559	Homo sapiens hypothetical protein FLJ25791 (FLJ25791), mRNA
NM_173560	Homo sapiens regulatory factor X domain containing 1 (RFXDC1), mRNA
NM_173561	Homo sapiens unc-5 homolog C (C. elegans)-like (UNC5CL), mRNA
NM_173562	Homo sapiens chromosome 6 open reading frame 69 (C6orf69), mRNA
NM_173563	Homo sapiens chromosome 6 open reading frame 146 (C6orf146), mRNA
NM_173564	Homo sapiens hypothetical protein FLJ37538 (FLJ37538), mRNA
NM_173565	Homo sapiens hypothetical protein LOC222967 (LOC222967), mRNA
NM_173566	Homo sapiens hypothetical protein MGC50372 (MGC50372), mRNA
NM_173567	Homo sapiens abhydrolase domain containing 7 (ABHD7), mRNA
NM_173568	Homo sapiens uromodulin-like 1 (UMODL1), mRNA
NM_173570	Homo sapiens zinc finger, DHHC domain containing 23 (ZDHHC23), mRNA
NM_173571	Homo sapiens hypothetical protein LOC255313 (LOC255313), mRNA

NM_173572	Homo sapiens chromosome 10 open reading frame 93 (C10orf93), mRNA
NM_173573	Homo sapiens hypothetical protein MGC35138 (MGC35138), mRNA
NM_173574	Homo sapiens hypothetical protein MGC33414 (MGC33414), mRNA
NM_173575	Homo sapiens serine/threonine kinase 32C (STK32C), mRNA
NM_173576	Homo sapiens chromosome 10 open reading frame 48 (C10orf48), mRNA
NM_173578	Homo sapiens hypothetical protein FLJ90834 (FLJ90834), mRNA
NM_173579	Homo sapiens hypothetical protein FLJ40224 (FLJ40224), mRNA
NM_173580	Homo sapiens hypothetical protein FLJ39058 (FLJ39058), mRNA
NM_173581	Homo sapiens hypothetical protein FLJ90231 (FLJ90231), mRNA
NM_173582	Homo sapiens phosphoglucomutase 2-like 1 (PGM2L1), mRNA
NM_173583	Homo sapiens hypothetical protein FLJ33790 (FLJ33790), mRNA
NM_173584	Homo sapiens hypothetical protein MGC45840 (MGC45840), mRNA
NM_173586	Homo sapiens hypothetical protein MGC34821 (MGC34821), mRNA
NM_173587	Homo sapiens REST corepressor 2 (RCOR2), mRNA
NM_173588	Homo sapiens hypothetical protein FLJ37794 (FLJ37794), mRNA
NM_173589	Homo sapiens hypothetical protein FLJ35709 (FLJ35709), mRNA
NM_173590	Homo sapiens hypothetical protein FLJ36102 (FLJ36102), mRNA
NM_173591	Homo sapiens hypothetical protein FLJ90579 (FLJ90579), mRNA
NM_173593	Homo sapiens beta 1,4-N-acetylgalactosaminyltransferase-transferase-III (Behomo sapiens solute carrier family 39 (metal ion transporter), member 5 (SL)
NM_173596 NM 173597	Homo sapiens hypothetical protein FLJ37587 (FLJ37587), mRNA
NM 173598	Homo sapiens kinase suppressor of Ras-2 (KSR2), mRNA
NM_173599	Homo sapiens hypothetical protein FLJ40126 (FLJ40126), mRNA
NM 173605	Homo sapiens potassium channel regulator (KCNRG), mRNA
NM 173607	Homo sapiens chromosome 14 open reading frame 24 (C14orf24), mRNA
NM 173608	Homo sapiens chromosome 14 open reading frame 80 (C14orf80), mRNA
NM_173609	Homo sapiens chromosome 15 open reading frame 21 (C15orf21), mRNA
NM_173610	Homo sapiens hypothetical protein FLJ33768 (FLJ33768), mRNA
NM_173611	Homo sapiens hypothetical protein FLJ38426 (FLJ38426), mRNA
NM_173613	Homo sapiens hypothetical protein FLJ35785 (FLJ35785), mRNA
NM_173614	Homo sapiens hypothetical protein LOC283820 (LOC283820), mRNA
NM_173616	Homo sapiens hypothetical protein FLJ35894 (FLJ35894), mRNA
NM_173617	Homo sapiens hypothetical protein FLJ36701 (FLJ36701), mRNA
NM_173618	Homo sapiens hypothetical protein FLJ90652 (FLJ90652), mRNA
NM_173619	Homo sapiens hypothetical protein MGC34761 (MGC34761), mRNA
NM_173620 NM 173621	Homo sapiens hypothetical protein FLJ23825 (FLJ23825), mRNA Homo sapiens hypothetical protein FLJ34790 (FLJ34790), mRNA
NM_173622	Homo sapiens hypothetical protein FLJ36674 (FLJ36674), mRNA
NM_173623	Homo sapiens hypothetical protein FLJ35808 (FLJ35808), mRNA
NM_173624	Homo sapiens hypothetical protein FLJ40504 (FLJ40504), mRNA
NM 173625	Homo sapiens hypothetical protein FLJ39647 (FLJ39647), mRNA
NM 173626	Homo sapiens solute carrier family 26, member 11 (SLC26A11), mRNA
NM_173627	Homo sapiens hypothetical protein FLJ35220 (FLJ35220), mRNA
NM_173628	Homo sapiens hypothetical protein FLJ40457 (FLJ40457), mRNA
NM_173629	Homo sapiens chromosome 18 open reading frame 26 (C18orf26), mRNA
NM_173630	Homo sapiens rotatin (RTTN), mRNA
NM_173631	Homo sapiens zinc finger protein 547 (ZNF547), mRNA
NM_173632	Homo sapiens hypothetical protein FLJ38288 (FLJ38288), mRNA
NM_173633	Homo saplens hypothetical protein FLJ90805 (FLJ90805), mRNA
NM_173635	Homo sapiens hypothetical protein FLJ40235 (FLJ40235), mRNA
NM_173636	Homo sapiens chromosome 19 open reading frame 14 (C19orf14), mRNA
NM_173637	Homo sapiens hypothetical protein MGC34725 (MGC34725), mRNA
NM_173638	Homo sapiens hypothetical protein MGC8902 (MGC8902), mRNA Homo sapiens hypothetical protein FLJ35976 (FLJ35976), mRNA
NM_173639	Homo sapiens hypothetical protein FLJ35976 (FLJ35976), mRNA Homo sapiens likely ortholog of mouse roof plate-specific spondin (R-spondin
NM_173640 NM 173641	Homo sapiens hypothetical protein FLJ33655 (FLJ33655), mRNA
NM_173642	Homo sapiens hypothetical protein MGC47816 (MGC47816), mRNA
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NM_173643	Homo sapiens hypothetical protein DKFZp547G0215 (DKFZp547G0215), ml
NM_173644	Homo sapiens hypothetical protein FLJ33860 (FLJ33860), mRNA
NM_173645	Homo sapiens hypothetical protein FLJ37357 (FLJ37357), mRNA
NM_173646	Homo sapiens hypothetical protein FLJ39660 (FLJ39660), mRNA
NM_173647	Homo sapiens ring finger protein 149 (RNF149), mRNA
NM_173648	Homo sapiens hypothetical protein FLJ39502 (FLJ39502), mRNA
NM_173649	Homo sapiens hypothetical protein FLJ40172 (FLJ40172), mRNA
NM_173650	Homo sapiens DnaJ (Hsp40) homolog, subfamily C, member 5 gamma (DNA
NM_173651	Homo sapiens fibrous sheath interacting protein 2 (FSIP2), mRNA
NM_173652	Homo sapiens hypothetical protein MGC34824 (MGC34824), mRNA
NM_173653	Homo sapiens solute carrier family 9 (sodium/hydrogen exchanger), isoform
NM_173654	Homo sapiens hypothetical protein MGC34132 (MGC34132), mRNA
NM_173656	Homo sapiens zinc finger protein 619 (ZNF619), mRNA
NM_173657	Homo sapiens hypothetical protein FLJ31139 (FLJ31139), mRNA
NM_173658	Homo sapiens hypothetical protein FLJ36870 (FLJ36870), mRNA
NM_173659	Homo sapiens hypothetical protein MGC29784 (MGC29784), mRNA
NM_173660	Homo sapiens hypothetical protein FLJ33718 (FLJ33718), mRNA
NM_173661	Homo sapiens hypothetical protein FLJ35424 (FLJ35424), mRNA
NM_173662	Homo sapiens hypothetical protein LOC285533 (LOC285533), mRNA
NM_173663 NM 173664	Homo sapiens NY-REN-7 antigen (NY-REN-7), mRNA
NM 173665	Homo sapiens ADP-ribosylation factor-like 10A (ARL10A), mRNA Homo sapiens hypothetical protein MGC34713 (MGC34713), mRNA
NM_173666	Homo sapiens hypothetical protein FLJ33977 (FLJ33977), mRNA
NM 173667	Homo sapiens hypothetical protein FLJ37543 (FLJ37543), mRNA
NM_173669	Homo sapiens hypothetical protein FLJ34047 (FLJ34047), mRNA
NM 173670	Homo sapiens RGM domain family, member B (RGMB), mRNA
NM 173671	Homo sapiens hypothetical protein FLJ37396 (FLJ37396), mRNA
NM 173672	Homo sapiens repetidylprolyl isomerase (cyclophilin)-like 6 (PPIL6), mRNA
NM 173673	Homo sapiens hypothetical protein FLJ34503 (FLJ34503), mRNA
NM_173674	Homo sapiens discoidin, CUB and LCCL domain containing 1 (DCBLD1), mF
NM 173675	Homo sapiens hypothetical protein FLJ33708 (FLJ33708), mRNA
NM_173676	Homo sapiens patatin-like phospholipase domain containing 1 (PNPLA1), ml
NM_173677	Homo sapiens hypothetical protein FLJ40852 (FLJ40852), mRNA
NM_173678	Homo sapiens hypothetical protein FLJ40722 (FLJ40722), mRNA
NM_173680	Homo sapiens hypothetical protein MGC33584 (MGC33584), mRNA
NM_173682	Homo sapiens hypothetical protein FLJ40288 (FLJ40288), mRNA
NM_173683	Homo saplens chromosome 8 open reading frame 21 (C8orf21), mRNA
NM_173685	Homo sapiens hypothetical protein FLJ32440 (FLJ32440), mRNA
NM_173687	Homo sapiens hypothetical protein FLJ37131 (FLJ37131), mRNA
NM_173688	Homo sapiens hypothetical protein FLJ39630 (FLJ39630), mRNA
NM_173689	Homo sapiens crumbs homolog 2 (Drosophila) (CRB2), mRNA
NM_173690	Homo sapiens chromosome 9 open reading frame 126 (C9orf126), mRNA
NM_173691	Homo sapiens chromosome 9 open reading frame 75 (C9orf75), mRNA
NM_173694	Homo sapiens ATPase, Class VI, type 11C (ATP11C), mRNA
NM_173695	Homo sapiens hypothetical protein FLJ36601 (FLJ36601), mRNA
NM_173698	Homo sapiens hypothetical protein FLJ37659 (FLJ37659), mRNA
NM_173699	Homo sapiens hypothetical protein MGC33889 (MGC33889), mRNA
NM_173700	Homo sapiens BCL6 co-repressor-like 2 (BCORL2), mRNA
NM_173701	Homo sapiens tryptophanyl-tRNA synthetase (WARS), transcript variant 2, rr
NM_173728	Homo sapiens Rho guanine nucleotide exchange factor (GEF) 15 (ARHGEF
NM_173791	Homo sapiens PDZ domain containing 8 (PDZK8), mRNA Homo sapiens hypothetical protein LOC128977 (LOC128977), mRNA
NM_173793	Homo sapiens FUN14 domain containing 1 (FUNDC1), mRNA
NM_173794	Homo sapiens hypothetical protein FLJ32096 (FLJ32096), mRNA
NM_173795 NM 173797	Homo sapiens PAP associated domain containing 4 (PAPD4), mRNA
NM_173797	Homo sapiens zinc finger, CCHC domain containing 4 (PAPD4), IRNA Homo sapiens zinc finger, CCHC domain containing 12 (ZCCHC12), mRNA
NM 173799	Homo sapiens hypothetical protein FLJ39873 (FLJ39873), mRNA
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NM 173800	Homo sapiens laeverin (FLJ90650), mRNA
NM 173801	Homo sapiens hypothetical protein FLJ36198 (FLJ36198), mRNA
NM 173802	Homo sapiens hypothetical protein MGC50559 (MGC50559), mRNA
NM 173803	Homo sapiens hypothetical protein FLJ39599 (FLJ39599), mRNA
NM_173804	Homo sapiens hypothetical protein MGC30208 (MGC30208), mRNA
NM 173805	Homo sapiens hypothetical protein FLJ38723 (FLJ38723), mRNA
NM_173806	Homo sapiens hypothetical protein MGC50721 (MGC50721), mRNA
NM_173807	Homo sapiens hypothetical protein MGC33370 (MGC33370), mRNA
NM 173808	Homo sapiens neuronal growth regulator 1 (NEGR1), mRNA
NM_173809	Homo sapiens biogenesis of lysosome-related organelles complex-1, subuni
NM_173810	Homo sapiens hypothetical protein MGC29649 (MGC29649), mRNA
NM_173811	Homo sapiens hypothetical protein FLJ32675 (FLJ32675), mRNA
NM 173812	Homo sapiens hypothetical protein FLJ32949 (FLJ32949), mRNA
NM 173813	Homo sapiens hypothetical protein FLJ34154 (FLJ34154), mRNA
NM 173815	Homo sapiens hypothetical protein FLJ37464 (FLJ37464), mRNA
NM 173821	Homo sapiens hypothetical protein FLJ33590 (FLJ33590), mRNA
NM 173822	Homo sapiens hypothetical protein MGC39518 (MGC39518), mRNA
NM 173824	Homo sapiens hypothetical protein MGC26717 (MGC26717), mRNA
NM 173825	Homo sapiens RAB, member of RAS oncogene family-like 3 (RABL3), mRN/
NM 173826	Homo sapiens hypothetical protein DKFZp313N0621 (DKFZp313N0621), mF
NM 173827	Homo sapiens hypothetical protein FLJ38991 (FLJ38991), mRNA
NM 173828	Homo sapiens chromosome 5 open reading frame 16 (C5orf16), mRNA
NM 173829	Homo sapiens hypothetical protein FLJ36754 (FLJ36754), mRNA
NM 173830	Homo sapiens chromosome 6 open reading frame 182 (C6orf182), mRNA
NM_173831	Homo sapiens hypothetical protein LOC286075 (LOC286075), mRNA
NM_173832	Homo sapiens hypothetical protein FLJ38705 (FLJ38705), mRNA
NM_173833	Homo sapiens hypothetical protein MGC45780 (MGC45780), mRNA
NM_173834	Homo sapiens hypothetical protein MGC21416 (MGC21416), mRNA
NM_173841	Homo sapiens interleukin 1 receptor antagonist (IL1RN), transcript variant 2,
NM_173842	Homo sapiens interleukin 1 receptor antagonist (IL1RN), transcript variant 1,
NM_173843	Homo sapiens interleukin 1 receptor antagonist (IL1RN), transcript variant 4,
NM_173844	Homo sapiens mucosa associated lymphoid tissue lymphoma translocation ç
NM_173846	Homo sapiens chromosome 14 open reading frame 8 (C14orf8), mRNA
NM_173847	Homo sapiens sperm acrosome associated 3 (SPACA3), mRNA
NM_173848	Homo sapiens hypothetical protein LOC138046 (LOC138046), mRNA
NM_173849	Homo sapiens goosecoid (GSC), mRNA
NM_173850	Homo sapiens serine (or cysteine) proteinase inhibitor, clade A (alpha-1 anti
NM_173851	Homo sapiens solute carrier family 30 (zinc transporter), member 8 (SLC30A
NM_173852	Homo sapiens keratinocyte associated protein 2 (KRTCAP2), mRNA
NM_173853	Homo sapiens keratinocyte associated protein 3 (KRTCAP3), mRNA
NM_173854	Homo sapiens solute carrier family 41, member 1 (SLC41A1), mRNA
NM_173855	Homo sapiens morn (LOC283385), mRNA
NM_173856	Homo sapiens vomeronasal 1 receptor 2 (VN1R2), mRNA
NM_173857	Homo sapiens vomeronasal 1 receptor 4 (VN1R4), mRNA
NM_173858	Homo sapiens vomeronasal 1 receptor 5 (VN1R5), mRNA
NM_173859	Homo sapiens breast cancer and salivary gland expression gene (BASE), ml
NM_173860	Homo sapiens homeo box C12 (HOXC12), mRNA Homo sapiens chloride channel 3 (CLCN3), transcript variant e, mRNA
NM_173872	Homo sapiens isocitrate dehydrogenase 3 (NAD+) beta (IDH3B), nuclear ger
NM_174855 NM 174856	Homo sapiens isocitrate dehydrogenase 3 (NAD+) beta (IDH3B), nuclear ger
NM 174858	Homo sapiens adenylate kinase 5 (AK5), transcript variant 1, mRNA
NM_174869	Homo sapiens isocitrate dehydrogenase 3 (NAD+) gamma (IDH3G), nuclear
NM 174871	Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase,
NM_174872	Homo sapiens purinergic receptor P2X, ligand-gated ion channel, 2 (P2RX2)
NM 174873	Homo sapiens purinergic receptor P2X, ligand-gated ion channel, 2 (P2RX2)
NM 174878	Homo sapiens Usher syndrome 3A (USH3A), transcript variant 1, mRNA
NM_174880	Homo sapiens Usher syndrome 3A (USH3A), transcript variant 3, mRNA
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NM_174881	Homo sapiens crumbs homolog 3 (Drosophila) (CRB3), transcript variant 3, r
NM_174882	Homo sapiens crumbs homolog 3 (Drosophila) (CRB3), transcript variant 1, r
NM_174886	Homo sapiens TGFB-induced factor (TALE family homeobox) (TGIF), transcr
NM_174887	Homo sapiens intraflagellar transport protein IFT20 (LOC90410), mRNA
NM_174889	Homo sapiens hypothetical protein LOC91942 (LOC91942), mRNA
NM_174890	Homo sapiens AN1, ubiquitin-like, homolog (Xenopus laevis) (ANUBL1), mR
NM_174891	Homo sapiens chromosome 14 open reading frame 79 (C14orf79), mRNA
NM_174892	Homo sapiens triggering receptor expressed on myeloid cells 5 (TREM5), mf
NM_174896	Homo sapiens hypothetical protein MGC24133 (MGC24133), mRNA
NM_174897	Homo sapiens bactericidal/permeability-increasing protein-like 3 (BPIL3), mF
NM_174898	Homo sapiens hypothetical protein LOC129530 (LOC129530), mRNA
NM_174899	Homo sapiens F-box protein 36 (FBXO36), mRNA
NM_174900	Homo sapiens zinc finger protein 42 (ZFP42), mRNA
NM_174901	Homo sapiens family with sequence similarity 9, member C (FAM9C), mRNA
NM_174902	Homo sapiens hypothetical protein LOC143458 (LOC143458), mRNA
NM_174905	Homo sapiens hypothetical protein LOC147965 (LOC147965), mRNA
NM_174906	Homo sapiens hypothetical protein MGC39724 (MGC39724), mRNA
NM_174907	Homo sapiens protein phosphatase 4, regulatory subunit 2 (PPP4R2), mRN/
NM_174908	Homo sapiens chromosome 3 open reading frame 6 (C3orf6), transcript varia
NM_174909	Homo sapiens hypothetical protein MGC23909 (MGC23909), mRNA
NM_174910	Homo sapiens t-complex-associated-testis-expressed 3 (TCTE3), mRNA
NM_174911	Homo sapiens breast cancer membrane protein 101 (NSE2), mRNA
NM_174912	Homo sapiens hypothetical protein FLJ31204 (FLJ31204), mRNA
NM_174913	Homo sapiens chromosome 14 open reading frame 21 (C14orf21), mRNA
NM_174914	Homo sapiens hypothetical protein LOC167127 (LOC167127), mRNA
NM_174916	Homo sapiens ubiquitin protein ligase E3 component n-recognin 1 (UBR1), n
NM_174917	Homo sapiens hypothetical protein LOC197322 (LOC197322), mRNA
NM_174918	Homo sapiens hypothetical protein LOC199675 (LOC199675), mRNA
NM_174920	Homo sapiens hypothetical protein LOC201191 (LOC201191), mRNA
NM_174921 NM 174922	Homo sapiens hypothetical protein LOC201895 (LOC201895), mRNA Homo sapiens aarF domain containing kinase 5 (ADCK5), mRNA
NM 174923	Homo sapiens hypothetical protein MGC31967 (MGC31967), mRNA
NM_174924	Homo sapiens hypothetical protein LOC204474 (LOC204474), mRNA
NM 174925	Homo sapiens hypothetical protein LOC205251 (LOC205251), mRNA
NM_174926	Homo sapiens hypothetical protein MGC17839 (MGC17839), mRNA
NM 174927	Homo sapiens spergen-1 (SPAS1), mRNA
NM 174928	Homo sapiens hypothetical protein LOC221143 (LOC221143), mRNA
NM 174930	Homo sapiens postmeiotic segregation increased 2-like 5 (PMS2L5), mRNA
NM_174931	Homo sapiens hypothetical protein FLJ38348 (FLJ38348), mRNA
NM_174932	Homo sapiens bactericidal/permeability-increasing protein-like 2 (BPIL2), mF
NM 174933	Homo sapiens phytanoyl-CoA dioxygenase domain containing 1 (PHYHD1),
NM_174934	Homo sapiens sodium channel, voltage-gated, type IV, beta (SCN4B), mRN/
NM_174936	Homo sapiens proprotein convertase subtilisin/kexin type 9 (PCSK9), mRNA
NM 174937	Homo sapiens transcription elongation regulator 1-like (TCERG1L), mRNA
NM_174938	Homo sapiens FERM domain containing 3 (FRMD3), mRNA
NM_174939	Homo sapiens hypothetical protein MGC39681 (MGC39681), mRNA
NM 174940	Homo sapiens hypothetical protein LOC283232 (LOC283232), mRNA
NM_174941	Homo sapiens scavenger receptor cysteine-rich type 1 protein M160 (M160),
NM_174942	Homo sapiens growth arrest-specific 2 like 3 (GAS2L3), mRNA
NM_174943	Homo sapiens hypothetical protein FLJ25976 (FLJ25976), mRNA
NM_174944	Homo sapiens chromosome 14 open reading frame 20 (C14orf20), mRNA
NM_174945	Homo sapiens zinc finger protein 575 (ZNF575), mRNA
NM_174947	Homo sapiens chromosome 19 open reading frame 30 (C19orf30), mRNA
NM_174950	Homo sapiens hypothetical protein FLJ30435 (FLJ30435), mRNA
NM_174951	Homo sapiens family with sequence similarity 9, member A (FAM9A), mRNA
NM_174952	Homo sapiens hypothetical protein MGC46496 (MGC46496), mRNA
NM_174953	Homo sapiens ATPase, Ca++ transporting, ubiquitous (ATP2A3), transcript v

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NM 174954
              Homo sapiens ATPase, Ca++ transporting, ubiquitous (ATP2A3), transcript v
 NM 174955
              Homo sapiens ATPase, Ca++ transporting, ubiquitous (ATP2A3), transcript v
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              Homo sapiens ATPase, Ca++ transporting, ubiquitous (ATP2A3), transcript v
              Homo sapiens ATPase, Ca++ transporting, ubiquitous (ATP2A3), transcript v
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              Homo sapiens ATPase, Ca++ transporting, ubiquitous (ATP2A3), transcript v
 NM 174958
 NM 174959
              Homo sapiens hypothetical protein LOC136306 (LOC136306), mRNA
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              Homo sapiens synovial sarcoma, X breakpoint 8 (SSX8), mRNA
              Homo sapiens synovial sarcoma, X breakpoint 9 (SSX9), mRNA
 NM_174962
              Homo sapiens sialyltransferase 6 (N-acetyllacosaminide alpha 2,3-sialyltrans
 NM_174963
 NM 174964
              Homo sapiens sialyltransferase 6 (N-acetyllacosaminide alpha 2,3-sialyltrans
 NM 174965
              Homo sapiens sialyltransferase 6 (N-acetyllacosaminide alpha 2,3-sialyltrans
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              Homo sapiens sialyltransferase 6 (N-acetyllacosaminide alpha 2,3-sialyltrans
 NM 174970
              Homo sapiens sialyltransferase 6 (N-acetyllacosaminide alpha 2,3-sialyltrans
              Homo sapiens sialyltransferase 6 (N-acetyllacosaminide alpha 2,3-sialyltrans
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 NM_174972
             Homo sapiens SEC14-like 3 (S. cerevisiae) (SEC14L3), mRNA
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NM_174976 Homo sapiens zinc finger, DHHC domain containing 22 (ZDHHC22), mRNA
NM_174977
             Homo sapiens SEC14-like 4 (S. cerevisiae) (SEC14L4), mRNA
NM_174978 Homo sapiens chromosome 14 open reading frame 39 (C14orf39), mRNA
NM_174980 Homo sapiens vomeronasal 1 receptor 3 (VN1R3), mRNA
NM 174981
             Homo sapiens ankyrin repeat domain 21 (ANKRD21), mRNA
NM_174983 Homo sapiens chromosome 19 open reading frame 28 (C19orf28), mRNA
NM 175038
             Homo sapiens contactin 1 (CNTN1), transcript variant 2, mRNA
NM 175039
             Homo sapiens sialyltransferase 7D ((alpha-N-acetylneuraminyi-2,3-beta-gala
NM 175040
             Homo sapiens sialyltransferase 7D ((alpha-N-acetylneuraminyl-2,3-beta-gala
NM 175047
             Homo sapiens paired immunoglobin-like type 2 receptor beta (PILRB), transc
NM 175052
             Homo sapiens sialyltransferase 8D (alpha-2, 8-polysialyltransferase) (SIAT8I
             Homo sapiens keratin 6 irs4 (K6IRS4), mRNA
NM 175053
NM_175054
             Homo sapiens histone 4, H4 (HIST4H4), mRNA
NM 175055
             Homo sapiens histone 3, H2bb (HIST3H2BB), mRNA
             Homo sapiens hypothetical protein LOC131368 (LOC131368), mRNA
NM 175056
             Homo sapiens trace amine receptor 3 (TRAR3), mRNA
NM 175057
NM_175058
             Homo sapiens hypothetical protein LOC144100 (LOC144100), mRNA
NM 175060
             Homo sapiens chromosome 14 open reading frame 27 (C14orf27), mRNA
NM_175061
             Homo sapiens juxtaposed with another zinc finger gene 1 (JAZF1), mRNA
NM_175062
             Homo sapiens RasGEF domain family, member 1C (RASGEF1C), mRNA
NM 175063
             Homo sapiens hypothetical protein LOC284361 (LOC284361), transcript vari
NM 175064
             Homo sapiens Williams Beuren syndrome chromosome region 19 (WBSCR1
NM 175065
             Homo sapiens histone 2, H2ab (HIST2H2AB), mRNA
NM 175066
             Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 51 (DDX51), mRNA
             Homo sapiens trace amine receptor 4 (TRAR4), mRNA
NM 175067
NM 175068
             Homo sapiens keratin 6 irs3 (K6IRS3), mRNA
             Homo sapiens aprataxin (APTX), transcript variant 2, mRNA
NM_ 175069
             Homo sapiens aprataxin (APTX), transcript variant 5, mRNA
NM_175071
NM_175072 Homo sapiens aprataxin (APTX), transcript variant 3, mRNA
NM_175073 Homo sapiens aprataxin (APTX), transcript variant 1, mRNA
NM_175075 Homo sapiens hypothetical protein INM01 (INM01), mRNA
NM_175077 Homo sapiens Src-like-adaptor 2 (SLA2), transcript variant 2, mRNA
NM_175078 Homo sapiens keratin 1B (KRT1B), mRNA
NM_175080 Homo sapiens purinergic receptor P2X, ligand-gated ion channel, 5 (P2RX5)
NM 175081
            Homo sapiens purinergic receptor P2X, ligand-gated ion channel, 5 (P2RX5)
            Homo sapiens phosphoribosylglycinamide formyltransferase, phosphoribosyl
NM_175085
NM_ 175566
            Homo sapiens contactin 5 (CNTN5), transcript variant 2, mRNA
NM_175567
            Homo sapiens purinergic receptor P2X, ligand-gated ion channel, 4 (P2RX4)
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NM_175568	Homo sapiens purinergic receptor P2X, ligand-gated ion channel, 4 (P2RX4)
NM_175569	Homo sapiens Xg blood group (pseudoautosomal boundary-divided on the X
NM_175571	Homo sapiens human immune associated nucleotide 6 (hIAN6), mRNA
NM_175573	Homo sapiens adhesion regulating molecule 1 (ADRM1), transcript variant 2,
NM_175575	Homo sapiens WFIKKN-related protein (WFIKKNRP), mRNA
NM_175605	Homo sapiens tetratricopeptide repeat domain 10 (TTC10), transcript variant
NM_175607	Homo sapiens contactin 4 (CNTN4), transcript variant 1, mRNA
NM_175609	Homo sapiens ADP-ribosylation factor GTPase activating protein 1 (ARFGAF
NM_175610	Homo sapiens tight junction protein 1 (zona occludens 1) (TJP1), transcript v
NM_175611	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1), transcript v
NM_175612	Homo sapiens contactin 4 (CNTN4), transcript variant 2, mRNA
NM_175613	Homo sapiens contactin 4 (CNTN4), transcript variant 3, mRNA
NM 175614	Homo sapiens NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 11,
NM_175616	Homo sapiens FIS (FIS), mRNA
NM 175617	Homo sapiens metallothionein 1E (functional) (MT1E), mRNA
NM 175619	Homo sapiens zygote arrest 1 (ZAR1), mRNA
NM 175622	Homo sapiens metallothionein 1J (MT1J), mRNA
NM 175623	Homo sapiens RAB3A interacting protein (rabin3) (RAB3IP), transcript variar
NM 175624	Homo sapiens RAB3A interacting protein (rabin3) (RAB3IP), transcript variar
NM 175625	Homo sapiens RAB3A interacting protein (rabin3) (RAB3IP), transcript variar
NM 175626	Homo sapiens RAB3A interacting protein (rabin3) (RAB3IP), transcript variar
NM 175627	Homo sapiens RAB3A interacting protein (rabin3) (RAB3IP), transcript variar
NM_175629	Homo sapiens DNA (cytosine-5-)-methyltransferase 3 alpha (DNMT3A), trans
NM 175630	Homo sapiens DNA (cytosine-5-)-methyltransferase 3 alpha (DNMT3A), trans
NM 175634	Homo sapiens core-binding factor, runt domain, alpha subunit 2; translocated
NM 175635	Homo sapiens core-binding factor, runt domain, alpha subunit 2; translocated
NM 175636	Homo sapiens core-binding factor, runt domain, alpha subunit 2; translocated
NM 175698	Homo sapiens synovial sarcoma, X breakpoint 2 (SSX2), transcript variant 2,
_	Homo sapiens chromobox homolog 7 (CBX7), mRNA
NM_175709	Homo sapiens synovial sarcoma, X breakpoint 3 (SSX3), transcript variant 2,
NM_175711	Homo sapiens thyroid peroxidase (TPO), transcript variant 2, mRNA
NM_175719	Homo sapiens thyroid peroxidase (TPO), transcript variant 2, mrdva Homo sapiens thyroid peroxidase (TPO), transcript variant 3, mRNA
NM_175720	Homo sapiens thyroid peroxidase (TPO), transcript variant 3, mrdvA Homo sapiens thyroid peroxidase (TPO), transcript variant 4, mRNA
NM_175721	Homo sapiens thyroid peroxidase (TPO), transcript variant 4, mrda Homo sapiens thyroid peroxidase (TPO), transcript variant 5, mRNA
NM_175722	Homo sapiens synovial sarcoma, X breakpoint 5 (SSX5), transcript variant 2,
NM_175723	Homo sapiens interleukin 5 receptor, alpha (IL5RA), transcript variant 2, mRI
NM_175724	
NM_175725	Homo sapiens interleukin 5 receptor, alpha (IL5RA), transcript variant 3, mRI
NM_175726	Homo sapiens interleukin 5 receptor, alpha (IL5RA), transcript variant 4, mRI
NM_175727	Homo sapiens interleukin 5 receptor, alpha (IL5RA), transcript variant 5, mRi
NM_175728	Homo sapiens interleukin 5 receptor, alpha (IL5RA), transcript variant 6, mRI
NM_175729	Homo sapiens synovial sarcoma, X breakpoint 4 (SSX4), transcript variant 2,
NM_175733	Homo sapiens synaptotagmin IX (SYT9), mRNA
NM_175734	Homo sapiens hypothetical protein LOC201243 (LOC201243), mRNA
NM_175735	Homo sapiens lysozyme-like (LYG2), mRNA
NM_175736	Homo sapiens formin-like 3 (FMNL3), transcript variant 1, mRNA
NM_175737	Homo sapiens klotho beta like (LOC152831), mRNA
NM_175738	Homo sapiens RAB37, member RAS oncogene family (RAB37), mRNA
NM_175739	
NM_175741	Homo sapiens nuclear protein in testis (NUT), mRNA
NM_175742	Homo sapiens melanoma antigen, family A, 2 (MAGEA2), transcript variant 2
NM_175743	
NM_175744	
NM_175745	
NM_175747	Homo sapiens oligodendrocyte transcription factor 3 (OLIG3), mRNA
NM_175748	Homo sapiens chromosome 14 open reading frame 130 (C14orf130), mRNA
NM_175767	Homo sapiens interleukin 6 signal transducer (gp130, oncostatin M receptor)
NM_175768	

NM_175834	Homo sapiens keratin 6L (KRT6L), mRNA
NM_175839	Homo sapiens spermine oxidase (SMOX), transcript variant 1, mRNA
NM_175840	Homo sapiens spermine oxidase (SMOX), transcript variant 2, mRNA
NM_175841	Homo sapiens spermine oxidase (SMOX), transcript variant 3, mRNA
NM_175842	Homo sapiens spermine oxidase (SMOX), transcript variant 4, mRNA
NM 175847	Homo sapiens polypyrimidine tract binding protein 1 (PTBP1), transcript varia
NM 175848	Homo sapiens DNA (cytosine-5-)-methyltransferase 3 beta (DNMT3B), transi
NM 175849	Homo sapiens DNA (cytosine-5-)-methyltransferase 3 beta (DNMT3B), transc
NM 175850	Homo sapiens DNA (cytosine-5-)-methyltransferase 3 beta (DNMT3B), trans-
NM 175851	Homo sapiens a disintegrin-like and metalloprotease (reprolysin type) with th
NM_175852	Homo sapiens taxilin (DKFZp451J0118), mRNA
NM 175854	Homo sapiens PABP1-dependent poly A-specific ribonuclease subunit PAN3
NM_175857	Homo sapiens keratin associated protein 8-1 (KRTAP8-1), mRNA
NM_175858	Homo sapiens keratin associated protein 11-1 (KRTAP11-1), mRNA
NM_175859	Homo sapiens CTP synthase II (CTPS2), transcript variant 2, mRNA
NM_175861	Homo sapiens ARG99 protein (ARG99), mRNA
NM_175862	Homo sapiens CD86 antigen (CD28 antigen ligand 2, B7-2 antigen) (CD86),
NM 175863	Homo sapiens AT rich interactive domain 1B (SWI1-like) (ARID1B), transcrip
NM 175864	Homo sapiens core-binding factor, runt domain, alpha subunit 2; translocated
NM_175865	Homo sapiens ELYS transcription factor-like protein TMBS62 (ELYS), mRNA
NM 175866	Homo sapiens kinase interacting with leukemia-associated gene (stathmin) (
NM 175867	Homo sapiens DNA (cytosine-5-)-methyltransferase 3-like (DNMT3L), transci
NM 175868	Homo sapiens melanoma antigen, family A, 6 (MAGEA6), transcript variant 2
NM_175870	Homo sapiens hypothetical protein LOC90925 (LOC90925), mRNA
NM 175871	Homo sapiens hypothetical protein FLJ35119 (FLJ35119), mRNA
NM_175872	Homo sapiens FLJ38451 protein (FLJ38451), mRNA
NM 175873	Homo sapiens hypothetical protein LOC134548 (LOC134548), mRNA
NM 175874	Homo sapiens hypothetical protein MGC47869 (MGC47869), mRNA
NM 175875	Homo sapiens sine oculis homeobox homolog 5 (Drosophila) (SIX5), mRNA
NM 175876	Homo sapiens exocyst complex component 8 (EXOC8), mRNA
NM 175877	Homo sapiens hypothetical protein MGC35023 (MGC35023), mRNA
NM_175878	Homo sapiens hypothetical protein MGC57211 (MGC57211), mRNA
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NM_175882	Homo sapiens intramembrane protease 5 (IMP5), mRNA
NM_175884	Homo sapiens hypothetical protein FLJ36031 (FLJ36031), mRNA
NM 175885	Homo sapiens hypothetical protein MGC33846 (MGC33846), mRNA
NM_175886	Homo sapiens phosphoribosyl pyrophosphate synthetase 1-like 1 (PRPS1L1
NM 175887	Homo sapiens hypothetical protein LOC222171 (LOC222171), mRNA
NM 175892	Homo sapiens hypothetical protein FLJ37266 (FLJ37266), mRNA
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NM_175906	Homo sapiens hypothetical protein MGC33608 (MGC33608), mRNA
NM 175907	Homo sapiens zinc binding alcohol dehydrogenase, domain containing 2 (ZA
NM_175908	Homo sapiens hypothetical protein LOC284296 (LOC284296), mRNA
NM_175910	Homo sapiens zinc finger protein 493 (ZNF493), mRNA
NM_175911	Homo sapiens hypothetical protein MGC40047 (MGC40047), mRNA
NM_175913	Homo sapiens junctophilin 2 (JPH2), transcript variant 2, mRNA
NM_175918	Homo sapiens hypothetical protein FLJ34443 (FLJ34443), mRNA
NM_175920	Homo sapiens hypothetical protein FLJ39485 (FLJ39485), mRNA
NM_175921	Homo sapiens hypothetical protein LOC285636 (LOC285636), mRNA
NM_175922	Homo sapiens hypothetical protein MGC35308 (MGC35308), mRNA
NM_175923	Homo sapiens hypothetical protein MGC42630 (MGC42630), mRNA
_	

NM_175924	Homo sapiens immunoglobulin-like domain containing receptor 1 (ILDR1), m
NM_175929	Homo sapiens fibroblast growth factor 14 (FGF14), transcript variant 2, mRN.
NM_175931	Homo sapiens core-binding factor, runt domain, alpha subunit 2; translocated
NM_175932	Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase,
NM 175940	Homo sapiens dual oxidase 1 (DUOX1), transcript variant 2, mRNA
NM_176071	Homo sapiens purinergic receptor P2Y, G-protein coupled, 2 (P2RY2), transc
NM 176072	Homo sapiens purinergic receptor P2Y, G-protein coupled, 2 (P2RY2), transc
NM 176081	Homo sapiens DNA (cytosine-5-)-methyltransferase 2 (DNMT2), transcript va
NM 176083	Homo sapiens DNA (cytosine-5-)-methyltransferase 2 (DNMT2), transcript va
NM_176084	Homo sapiens DNA (cytosine-5-)-methyltransferase 2 (DNMT2), transcript va
_	Homo sapiens DNA (cytosine-5-)-methyltransferase 2 (DNMT2), transcript va
NM_176085	Homo sapiens DNA (cytosine-5-)-methyltransferase 2 (DNMT2), transcript va
NM_176086	
NM_176095	Homo sapiens CDK5 regulatory subunit associated protein 3 (CDK5RAP3), t
NM_176096	Homo sapiens CDK5 regulatory subunit associated protein 3 (CDK5RAP3), t
NM_176782	Homo sapiens hyporthetical protein MGC27169 (MGC27169), mRNA
NM_176783	Homo sapiens proteasome (prosome, macropain) activator subunit 1 (PA28:
NM_176786	Homo sapiens interleukin 9 receptor (IL9R), transcript variant 2, mRNA
NM_176787	Homo sapiens phosphatidylinositol glycan, class N (PIGN), transcript variant
NM_176789	Homo sapiens myotubularin related protein 1 (MTMR1), transcript variant 2, I
NM_176791	Homo sapiens chromosome 20 open reading frame 65 (C20orf65), mRNA
NM_176792	Homo sapiens mitochondrial ribosomal protein L43 (MRPL43), nuclear gene
NM_176793	Homo sapiens mitochondrial ribosomal protein L43 (MRPL43), nuclear gene
NM_176794	Homo sapiens mitochondrial ribosomal protein L43 (MRPL43), nuclear gene
NM_176795	Homo sapiens v-Ha-ras Harvey rat sarcoma viral oncogene homolog (HRAS)
NM_176796	Homo sapiens pyrimidinergic receptor P2Y, G-protein coupled, 6 (P2RY6), tr
NM_176797	Homo sapiens pyrimidinergic receptor P2Y, G-protein coupled, 6 (P2RY6), tr
NM_176798	Homo sapiens pyrimidinergic receptor P2Y, G-protein coupled, 6 (P2RY6), tr
NM_176799	Homo sapiens integrin-linked kinase-associated serine/threonine phosphatas
NM_176800	Homo sapiens PRP4 pre-mRNA processing factor 4 homolog B (yeast) (PRF
NM_176801	Homo sapiens adducin 1 (alpha) (ADD1), transcript variant 4, mRNA
NM_176805	Homo sapiens mitochondrial ribosomal protein S11 (MRPS11), nuclear gene
NM_176806	Homo sapiens molybdenum cofactor synthesis 2 (MOCS2), transcript variant
NM_176810	Homo sapiens NACHT, leucine rich repeat and PYD containing 13 (NALP13)
NM_176811	Homo sapiens NACHT, leucine rich repeat and PYD containing 8 (NALP8), n
NM_176812	Homo sapiens chromosome 20 open reading frame 178 (C20orf178), mRNA
NM_176813	Homo sapiens breast cancer membrane protein 11 (BCMP11), mRNA
NM_176814	Homo sapiens hypothetical protein LOC168850 (LOC168850), mRNA
NM_176815	Homo sapiens hypothetical protein LOC200895 (LOC200895), mRNA
NM_176816	Homo sapiens Kenae (KENAE), mRNA
NM_176817	Homo sapiens taste receptor, type 2, member 38 (TAS2R38), mRNA
NM_176818	Homo sapiens hypothetical protein 15E1.2 (15E1.2), mRNA
NM_176820	Homo sapiens NACHT, leucine rich repeat and PYD containing 9 (NALP9), n
NM_176821	Homo sapiens NACHT, leucine rich repeat and PYD containing 10 (NALP10)
NM_176822	Homo sapiens NACHT, leucine rich repeat and PYD containing 14 (NALP14)
NM_176823	Homo sapiens S100 calcium binding protein A15 (S100A15), mRNA
NM_176824	Homo sapiens Bardet-Biedl syndrome 7 (BBS7), transcript variant 1, mRNA
NM_176825	Homo sapiens sulfotransferase family, cytosolic, 1C, member 1 (SULT1C1),
NM_176826	Homo sapiens ilvB (bacterial acetolactate synthase)-like (ILVBL), transcript v
NM_176853	Homo sapiens C-terminal modulator protein (CTMP), transcript variant 2, mR
NM_176863	Homo sapiens proteasome (prosome, macropain) activator subunit 3 (PA28)
NM_176866	Homo sapiens inorganic pyrophosphatase 2 (PPA2), transcript variant 3, mR
NM_176867	Homo sapiens inorganic pyrophosphatase 2 (PPA2), transcript variant 4, mR
NM_176869	
NM_176870	Homo sapiens metallothionein 1K (MT1K), mRNA
NM_176871	Homo sapiens PDZ and LIM domain 2 (mystique) (PDLIM2), transcript variar
NM_176874	
NM_176875	Homo sapiens cholecystokinin B receptor (CCKBR), mRNA

NM 176876 Homo sapiens purinergic receptor P2Y, G-protein coupled, 12 (P2RY12), trail NM 176877 Homo sapiens InaD-like protein (INADL), transcript variant 2, mRNA NM 176878 Homo sapiens InaD-like protein (INADL), transcript variant 4, mRNA NM 176880 Homo sapiens TR4 orphan receptor associated protein TRA16 (TRA16), mR Homo sapiens taste receptor, type 2, member 39 (TAS2R39), mRNA NM 176881 NM 176882 Homo sapiens taste receptor, type 2, member 40 (TAS2R40), mRNA NM_176883 Homo sapiens taste receptor, type 2, member 41 (TAS2R41), mRNA Homo sapiens taste receptor, type 2, member 43 (TAS2R43), mRNA NM_176884 NM_176885 Homo sapiens taste receptor, type 2, member 44 (TAS2R44), mRNA Homo sapiens taste receptor, type 2, member 45 (TAS2R45), mRNA NM_176886 NM_176887 Homo sapiens taste receptor, type 2, member 46 (TAS2R46), mRNA Homo sapiens taste receptor, type 2, member 48 (TAS2R48), mRNA NM_176888 Homo sapiens taste receptor, type 2, member 49 (TAS2R49), mRNA NM 176889 Homo sapiens taste receptor, type 2, member 50 (TAS2R50), mRNA NM_176890 Homo sapiens interferon epsilon 1 (IFNE1), mRNA NM 176891 Homo sapiens purinergic receptor P2Y, G-protein coupled, 13 (P2RY13), trai NM 176894 NM 176895 Homo sapiens phosphatidic acid phosphatase type 2A (PPAP2A), transcript NM 177398 Homo sapiens LIM homeobox transcription factor 1, alpha (LMX1A), transcription factor 1, alpha (Homo sapiens LIM homeobox transcription factor 1, alpha (LMX1A), transcription factor 1, alpha (NM_177399 Homo sapiens NK6 transcription factor related, locus 2 (Drosophila) (NKX6-2 NM_177400 Homo sapiens synaptotagmin II (SYT2), mRNA NM_177402 Homo sapiens RAB7B, member RAS oncogene family (RAB7B), mRNA NM 177403 NM 177404 Homo sapiens melanoma antigen, family B, 1 (MAGEB1), transcript variant 2 NM_177405 Homo sapiens cat eye syndrome chromosome region, candidate 1 (CECR1), Homo sapiens phosphatidic acid phosphatase type 2B (PPAP2B), transcript NM 177414 NM_177415 Homo sapiens melanoma antigen, family B, 1 (MAGEB1), transcript variant 3 Homo sapiens kinesin light chain 2-like (KLC2L), transcript variant 1, mRNA NM_177417 NM 177422 Homo sapiens eukaryotic translation initiation factor 2C, 3 (EIF2C3), transcrip NM 177423 Homo sapiens protein tyrosine phosphatase, receptor type, f polypeptide (PT NM 177424 Homo sapiens syntaxin 12 (STX12), mRNA Homo sapiens purinergic receptor P2X, ligand-gated ion channel, 7 (P2RX7) NM 177427 Homo sapiens melanoma antigen, family D, 2 (MAGED2), transcript variant 2 NM 177433 Homo sapiens FtsJ homolog 1 (E. coli) (FTSJ1), transcript variant 2, mRNA NM 177434 NM_177435 Homo sapiens peroxisome proliferative activated receptor, delta (PPARD), tr NM_177436 Homo sapiens CSE1 chromosome segregation 1-like (yeast) (CSE1L), trans-Homo sapiens taste receptor, type 2, member 60 (TAS2R60), mRNA NM 177437 Homo sapiens Dicer1, Dcr-1 homolog (Drosophila) (DICER1), transcript varia NM 177438 NM_177439 Homo sapiens FtsJ homolog 1 (E. coli) (FTSJ1), transcript variant 3, mRNA Homo sapiens hypothetical protein MGC3123 (MGC3123), mRNA NM_177441 NM_177442 Homo sapiens FtsJ homolog 2 (E. coli) (FTSJ2), transcript variant 2, mRNA Homo sapiens PTPRF interacting protein, binding protein 1 (liprin beta 1) (PF NM 177444 Homo sapiens trafficking protein particle complex 6B (TRAPPC6B), mRNA NM_177452 Homo sapiens progestin and adipoQ receptor family member III (PAQR3), m NM_177453 NM_177454 Homo sapiens KIAA1946 (KIAA1946), mRNA Homo sapiens class II bHLH protein MIST1 (MIST1), mRNA NM 177455 Homo sapiens melanoma antigen, family C, 3 (MAGEC3), transcript variant 2 NM_177456 Homo sapiens Ly-6 neurotoxin-like protein 1 (LYNX1), transcript variant 3, m NM 177457 NM_177458 Homo sapiens secreted Ly6/uPAR related protein 2 (SLURP2), mRNA Homo sapiens Ly-6 neurotoxin-like protein 1 (LYNX1), transcript variant 4, m NM_177476 Homo sapiens Ly-6 neurotoxin-like protein 1 (LYNX1), transcript variant 5, m NM 177477 Homo sapiens ferritin mitochondrial (FTMT), mRNA NM 177478 Homo sapiens glycosylphosphatidylinositol specific phospholipase D1 (GPLI NM 177483 Homo sapiens mesoderm specific transcript homolog (mouse) (MEST), trans NM_177524 NM_177525 Homo sapiens mesoderm specific transcript homolog (mouse) (MEST), trans NM 177526 Homo sapiens phosphatidic acid phosphatase type 2C (PPAP2C), transcript Homo sapiens sulfotransferase family, cytosolic, 1A, phenol-preferring, mem NM 177528 Homo sapiens sulfotransferase family, cytosolic, 1A, phenol-preferring, mem NM 177529

NM_177530 Homo sapiens sulfotransferase family, cytosolic, 1A, phenol-preferring, mem Homo sapiens polycystic kidney and hepatic disease 1 (autosomal recessive NM 177531 Homo sapiens Ras association (RalGDS/AF-6) domain family 6 (RASSF6), ti NM 177532 NM 177533 Homo sapiens nudix (nucleoside diphosphate linked moiety X)-type motif 14 NM 177534 Homo sapiens sulfotransferase family, cytosolic, 1A, phenol-preferring, mem NM_177535 Homo sapiens melanoma antigen, family D, 4 (MAGED4), transcript variant 2 NM_177536 Homo sapiens sulfotransferase family, cytosolic, 1A, phenol-preferring, mem NM_177537 Homo sapiens melanoma antigen, family D, 4 (MAGED4), transcript variant 3 NM_177538 Homo sapiens cytochrome P450, family 20, subfamily A, polypeptide 1 (CYP Homo sapiens taste receptor, type 1, member 1 (TAS1R1), transcript variant NM_177539 Homo sapiens taste receptor, type 1, member 1 (TAS1R1), transcript variant NM_177540 NM_177541 Homo sapiens taste receptor, type 1, member 1 (TAS1R1), transcript variant NM 177542 Homo sapiens small nuclear ribonucleoprotein D2 polypeptide 16.5kDa (SNF Homo sapiens phosphatidic acid phosphatase type 2C (PPAP2C), transcript NM 177543 Homo sapiens M8 protein (LOC149830), mRNA NM 177549 Homo sapiens solute carrier family 13 (sodium-dependent citrate transporter) NM 177550 Homo sapiens G protein-coupled receptor 109A (GPR109A), mRNA NM 177551 NM 177552 Homo sapiens sulfotransferase family, cytosolic, 1A, phenol-preferring, mem Homo sapiens growth arrest-specific 2 (GAS2), transcript variant 2, mRNA NM 177553 Homo sapiens acid phosphatase 1, soluble (ACP1), transcript variant 1, mRN NM_177554 NM_177555 Homo sapiens trophinin (TRO), transcript variant 1, mRNA Homo sapiens trophinin (TRO), transcript variant 2, mRNA NM 177556 NM 177557 Homo sapiens trophinin (TRO), transcript variant 5, mRNA Homo sapiens trophinin (TRO), transcript variant 4, mRNA NM 177558 Homo sapiens casein kinase 2, alpha 1 polypeptide (CSNK2A1), transcript vi NM 177559 NM_177560 Homo sapiens casein kinase 2, alpha 1 polypeptide (CSNK2A1), transcript vi NM_177924 Homo sapiens N-acylsphingosine amidohydrolase (acid ceramidase) 1 (ASA NM_177925 Homo sapiens H2A histone family, member J (H2AFJ), transcript variant 2, n NM 177926 Homo sapiens CSRP2 binding protein (CSRP2BP), transcript variant 2, mRN Homo sapiens golgi phosphoprotein 2 (GOLPH2), transcript variant 2, mRNA NM 177937 NM 177938 Homo sapiens hypoxia-inducible factor prolyl 4-hydroxylase (PH-4), mRNA Homo sapiens hypoxia-inducible factor prolyl 4-hydroxylase (PH-4), transcrip NM 177939 NM_177947 Homo sapiens armadillo repeat containing, X-linked 3 (ARMCX3), transcript NM 177948 Homo sapiens armadillo repeat containing, X-linked 3 (ARMCX3), transcript v NM 177949 Homo sapiens armadillo repeat containing, X-linked 2 (ARMCX2), mRNA NM_177951 Homo sapiens protein phosphatase 1A (formerly 2C), magnesium-dependen NM_177952 Homo sapiens protein phosphatase 1A (formerly 2C), magnesium-dependen NM_177953 Homo sapiens dynein, cytoplasmic, light polypeptide 2A (DNCL2A), transcrip NM_177954 Homo sapiens dynein, cytoplasmic, light polypeptide 2A (DNCL2A), transcrip Homo sapiens docking protein 5 (DOK5), transcript variant 2, mRNA NM 177959 Homo sapiens synaptotagmin XII (SYT12), mRNA NM 177963 Homo sapiens hypothetical protein LOC130576 (LOC130576), mRNA NM_177964 Homo sapiens hypothetical protein LOC157657 (LOC157657), mRNA NM_177965 Homo sapiens hypothetical protein DKFZp667B1218 (DKFZp667B1218), mF NM_177966 NM_177967 Homo sapiens phosphoglycerate dehydrogenase like 1 (PHGDHL1), mRNA Homo sapiens protein phosphatase 1B (formerly 2C), magnesium-dependen NM 177968 Homo sapiens protein phosphatase 1B (formerly 2C), magnesium-dependen NM 177969 Homo sapiens tubby homolog (mouse) (TUB), transcript variant 2, mRNA NM_177972 Homo sapiens sulfotransferase family, cytosolic, 2B, member 1 (SULT2B1), i NM_177973 Homo sapiens H63 breast cancer expressed gene (H63), transcript variant 2 NM_177974 Homo sapiens ADP-ribosylation factor-like 6 (ARL6), transcript variant 2, mR NM 177976 Homo sapiens huntingtin-associated protein 1 (neuroan 1) (HAP1), transcript NM_177977 Homo sapiens chordin (CHRD), transcript variant 2, mRNA NM_177978 NM 177979 Homo sapiens chordin (CHRD), transcript variant 3, mRNA NM 177980 Homo sapiens cadherin-like 26 (CDH26), transcript variant a, mRNA Homo sapiens protein phosphatase 1G (formerly 2C), magnesium-dependen NM 177983 Homo sapiens ADP-ribosylation factor-like 5 (ARL5), transcript variant 2, mR NM 177985

NM_177986	Homo sapiens desmoglein 4 (DSG4), mRNA
NM_177987	Homo sapiens tubulin, beta 8 (TUBB8-pending), mRNA
NM_177988	Homo sapiens mitochondrial ribosomal protein L47 (MRPL47), nuclear gene
NM_177989	Homo sapiens actin-like 6A (ACTL6A), transcript variant 2, mRNA
NM_177990	Homo sapiens p21(CDKN1A)-activated kinase 7 (PAK7), transcript variant 2,
NM_177991	Homo sapiens dual specificity phosphatase-like 15 (DUSP15), transcript vari
NM_177995	Homo sapiens protein tyrosine phosphatase domain containing 1 (PTPDC1),
NM 177996	Homo sapiens erythrocyte membrane protein band 4.1-like 1 (EPB41L1), trai
NM 177998	Homo sapiens otopetrin 1 (OTOP1), mRNA
NM_177999	Homo sapiens ankyrin repeat and SOCS box-containing 6 (ASB6), transcript
NM_178000	Homo sapiens protein phosphatase 2A, regulatory subunit B' (PR 53) (PPP2I
NM_178001	Homo sapiens protein phosphatase 2A, regulatory subunit B' (PR 53) (PPP2)
NM 178002	Homo sapiens protein phosphatase 2A, regulatory subunit B' (PR 53) (PPP2)
NM 178003	Homo sapiens protein phosphatase 2A, regulatory subunit B' (PR 53) (PPP2I
NM_178004	Homo sapiens proline rich membrane anchor 1 (PRIMA1), transcript variant I
NM_178006	Homo sapiens START domain containing 13 (STARD13), transcript variant a
NM 178007	Homo sapiens START domain containing 13 (STARD13), transcript variant b
NM 178008	Homo sapiens START domain containing 13 (STARD13), transcript variant d
NM 178009	Homo sapiens diacylglycerol kinase, eta (DGKH), transcript variant 2, mRNA
NM 178010	Homo sapiens SRY (sex determining region Y)-box 5 (SOX5), transcript varia
NM_178011	Homo sapiens leucine rich repeat transmembrane neuronal 3 (LRRTM3), mF
NM_178012	Homo sapiens tubulin, beta polypeptide paralog (MGC8685), mRNA
NM_178013	Homo sapiens proline rich membrane anchor 1 (PRIMA1), mRNA
NM 178014	Homo sapiens beta 5-tubulin (OK/SW-cl.56), mRNA
NM 178019	Homo sapiens cation channel, sperm associated 3 (CATSPER3), mRNA
NM 178025	Homo sapiens gamma-glutamyltransferase-like 3 (GGTL3), transcript variant
NM_178026	Homo sapiens gamma-glutamyltransferase-like 3 (GGTL3), transcript variant
NM_178031	Homo sapiens heat shock 70kDa protein 5 (glucose-regulated protein, 78kDa
NM 178033	Homo sapiens cytochrome P450, family 4, subfamily X, polypeptide 1 (CYP4
NM 178034	Homo sapiens phospholipase A2, group IVD (cytosolic) (PLA2G4D), mRNA
NM_178037	Homo sapiens Rab6-interacting protein 2 (ELKS), transcript variant beta, mR
NM 178038	Homo sapiens Rab6-interacting protein 2 (ELKS), transcript variant gamma,
NM_178039	Homo sapiens Rab6-interacting protein 2 (ELKS), transcript variant delta, mF
NM_178040	Homo sapiens Rab6-interacting protein 2 (ELKS), transcript variant epsilon, r
NM 178042	Homo sapiens actin-like 6A (ACTL6A), transcript variant 3, mRNA
NM_178043	Homo sapiens FLJ10378 protein (FLJ10378), transcript variant 2, mRNA
NM_178044	Homo sapiens hypothetical protein MGC5178 (MGC5178), transcript variant
NM_178120	Homo sapiens distal-less homeo box 1 (DLX1), mRNA
NM 178121	Homo sapiens HBV pre-s2 binding protein 1 (SBP1), mRNA
NM 178122	Homo sapiens hypothetical protein LOC90529 (LOC90529), mRNA
NM_178123	Homo sapiens SEC14 and spectrin domains 1 (SESTD1), mRNA
NM_178124	Homo sapiens hypothetical protein LOC91966 (LOC91966), mRNA
NM_178125	Homo sapiens tripartite motif-containing 50A (TRIM50A), mRNA
NM_178126	Homo sapiens hypothetical protein LOC162427 (LOC162427), mRNA
NM_178127	Homo sapiens angiopoietin-like 5 (ANGPTL5), mRNA
NM_178128	Homo sapiens similar to delta 5 fatty acid desaturase (LOC283985), mRNA
NM_178129	Homo sapiens purinergic receptor P2Y, G-protein coupled, 8 (P2RY8), mRN,
NM_178130	Homo sapiens thioredoxin domain containing 6 (TXNDC6), mRNA
NM_178134	Homo sapiens cytochrome P450, family 4, subfamily Z, polypeptide 1 (CYP4.
NM_178135	Homo sapiens short-chain dehydrogenase/reductase 9 (SCDR9), mRNA
NM_178136	Homo sapiens polymerase (DNA-directed), delta interacting protein 3 (POLD
NM_178138	Homo sapiens LIM homeobox 3 (LHX3), transcript variant 1, mRNA
NM_178140	Homo sapiens PDZ domain containing 3 (PDZK3), transcript variant 1, mRN/
NM_178145	Homo sapiens Ras association (RalGDS/AF-6) domain family 4 (RASSF4), ti
NM_178148	Homo sapiens solute carrier family 35, member B2 (SLC35B2), mRNA
NM_178150	Homo sapiens F-box protein, helicase, 18 (FBXO18), transcript variant 2, mF
NM_178151	Homo sapiens doublecortex; lissencephaly, X-linked (doublecortin) (DCX), tra

NM_178152 F	Homo sapiens doublecortex; lissencephaly, X-linked (doublecortin) (DCX), tn
NM 178153 F	Homo sapiens doublecortex; lissencephaly, X-linked (doublecortin) (DCX), tre
NM 178154 F	Homo sapiens fucosyltransferase 8 (alpha (1,6) fucosyltransferase) (FUT8), 1
NM 178155 H	Homo sapiens fucosyltransferase 8 (alpha (1,6) fucosyltransferase) (FUT8), i
NM 178156 F	Homo sapiens fucosyltransferase 8 (alpha (1,6) fucosyltransferase) (FUT8), 1
NM 178157 F	Homo sapiens fucosyltransferase 8 (alpha (1,6) fucosyltransferase) (FUT8), i
NM_178159 F	Homo sapiens hypothetical protein FLJ12949 (FLJ12949), transcript variant:
NM 178160 H	Homo sapiens otopetrin 2 (OTOP2), mRNA
NM_178161 H	Homo sapiens pancreas specific transcription factor, 1a (PTF1A), mRNA
NM_178167 F	Homo sapiens zinc finger protein 598 (ZNF598), mRNA
NM_178168 H	Homo sapiens olfactory receptor, family 10, subfamily A, member 5 (OR10A)
NM_178169	Homo sapiens Ras association (RalGDS/AF-6) domain family 3 (RASSF3), n
	Homo sapiens NIMA (never in mitosis gene a)- related kinase 8 (NEK8), mRI
NM_178171	Homo sapiens gasdermin 1 (GSDM1), mRNA
-	Homo sapiens high density lipoprotein-binding protein (LOC338328), mRNA
NM_178173	Homo sapiens hypothetical protein LOC339834 (LOC339834), mRNA
-	Homo sapiens triggering receptor expressed on myeloid cells-like 1 (TREML)
NM_178175	Homo sapiens lipoma HMGIC fusion partner-like 1 (LHFPL1), mRNA
_	Homo sapiens monoacylglycerol O-acyltransferase 3 (MOGAT3), mRNA Homo sapiens nicotinamide nucleotide adenylyltransferase 3 (NMNAT3), mR
NM_178177	Homo sapiens CUB domain-containing protein 1 (CDCP1), transcript variant
NM_178181	Homo sapiens ATPase inhibitory factor 1 (ATPIF1), nuclear gene encoding n
_	Homo sapiens ATPase inhibitory factor 1 (ATPIF1), nuclear gene encoding n
NM_178191 NM_178221	Homo sapiens APG4 autophagy 4 homolog C (S. cerevisiae) (APG4C), trans
NM 178225	Homo sapiens F-box and WD-40 domain protein 5 (FBXW5), transcript varia
NM 178226	Homo sapiens F-box and WD-40 domain protein 5 (FBXW5), transcript varia
NM_178228	Homo sapiens killer cell immunoglobulin-like receptor, two domains, short cy
NM 178229	Homo sapiens IQ motif containing GTPase activating protein 3 (IQGAP3), ml
NM 178230	Homo sapiens cyclophilin-LC (COAS2), mRNA
NM 178231	Homo sapiens amyotrophic lateral sclerosis 2 (juvenile) chromosome region,
NM 178232	Homo sapiens hyaluronan and proteoglycan link protein 3 (HAPLN3), mRNA
NM 178233	Homo sapiens otopetrin 3 (OTOP3), mRNA
NM 178234	Homo sapiens tumor suppressor candidate 3 (TUSC3), transcript variant 2, n
NM_178237	Homo sapiens SEC3-like 1 (S. cerevisiae) (SEC3L1), transcript variant 2, mF
NM_178238	Homo sapiens paired immunoglobin-like type 2 receptor beta (PILRB), transc
	Homo sapiens APG4 autophagy 4 homolog A (S. cerevisiae) (APG4A), trans
NM_178271	Homo sapiens APG4 autophagy 4 homolog A (S. cerevisiae) (APG4A), trans
NM_178272	Homo sapiens paired immunoglobin-like type 2 receptor alpha (PILRA), trans
NM_178273	Homo sapiens paired immunoglobin-like type 2 receptor alpha (PILRA), trans
NM_178275	Homo sapiens eEF1A2 binding protein (DKFZp434B1231), mRNA
NM_178276	Homo sapiens chromosome 5 open reading frame 12 (C5orf12), mRNA Homo sapiens gamma-glutamyltransferase-like activity 4 (GGTLA4), transcri
NM_178311	Homo sapiens gamma-glutamyltransferase-like activity 4 (GGTLA4), transcri
NM_178312	Homo sapiens gariffia-glutariyita and additi, 1 (0012 m), Homo sapiens spectrin, beta, non-erythrocytic 1 (SPTBN1), transcript variant
NM_178313	Homo sapiens spectrif, bcta, nor or yamosy as 1 (2) Homo sapiens hypothetical protein FLJ39378 (FLJ39378), mRNA
NM_178314 NM_178324	Homo sapiens serine palmitoyltransferase, long chain base subunit 1 (SPTL)
NM_178324	Homo sapiens APG4 autophagy 4 homolog B (S. cerevisiae) (APG4B), trans
NM 178329	Homo sapiens chemokine (C-C motif) receptor 3 (CCR3), transcript variant 2
NM_178331	Homo sapiens gonadotropin-releasing hormone 2 (GNRH2), transcript variar
NM_178332	Homo sapiens gonadotropin-releasing hormone 2 (GNRH2), transcript variar
NM_178335	Homo saniens chromosome 3 open reading frame 6 (C3orf6), transcript varia
NM_178336	Homo sapiens mitochondrial ribosomal protein L52 (MRPL52), nuclear gene
NM_178338	Homo sapiens AP20 region protein (APRG1), transcript variant A, mRNA
NM_178339	Homo sapiens AP20 region protein (APRG1), transcript variant B, mRNA
NM_178340	Homo sapiens AP20 region protein (APRG1), transcript variant C, mRNA
NM_178341	Homo sapiens AP20 region protein (APRG1), transcript variant D, mRNA
NM_178342	Homo sapiens AP20 region protein (APRG1), transcript variant E, mRNA

NM_178343	
NM_178344	Homo sapiens AP20 region protein (APRG1), transcript variant G, mRNA
NM_178348	Homo sapiens late envelope protein 1 (LEP1), mRNA
NM_178349	Homo sapiens small proline rich-like (epidermal differentiation complex) 2A (
NM 178351	Homo sapiens late envelope protein 3 (LEP3), mRNA
NM_178352	Homo sapiens late envelope protein 4 (LEP4), mRNA
NM 178353	Homo sapiens late envelope protein 5 (LEP5), mRNA
NM_178354	Homo sapiens late envelope protein 6 (LEP6), mRNA
NM_178356	Homo sapiens small proline rich-like (epidermal differentiation complex) 4A (.
NM 178422	Home sapiens membrane progestin recent and the (AADDA) - DAY
NM_178423	Homo sapiens membrane progestin receptor alpha (MPRA), mRNA
NM 178424	Homo sapiens histone deacetylase 9 (HDAC9), transcript variant 4, mRNA
	Homo sapiens SRY (sex determining region Y)-box 30 (SOX30), transcript ve
NM_178425	Homo sapiens histone deacetylase 9 (HDAC9), transcript variant 5, mRNA
NM_178426	Homo sapiens aryl hydrocarbon receptor nuclear translocator (ARNT), transc
NM_178427	Homo sapiens aryl hydrocarbon receptor nuclear translocator (ARNT), transc
NM_178428	Homo sapiens late envelope protein 9 (LEP9), mRNA
NM_178429	Homo sapiens late envelope protein 11 (LEP11), mRNA
NM_178430	Homo sapiens small proline rich-like (epidermal differentiation complex) 1A (
NM_178431	Homo sapiens late envelope protein 13 (LEP13), mRNA
NM_178432	Homo sapiens cell cycle related kinase (CCRK), transcript variant 1, mRNA
NM_178433	Homo sapiens late envelope protein 14 (LEP14), mRNA
NM_178434	Homo sapiens small proline rich-like (epidermal differentiation complex) 3A (
NM_178435	Homo sapiens late envelope protein 17 (LEP17), mRNA
NM_178438	Homo sapiens small proline rich-like (epidermal differentiation complex) 5A (
NM_178439	Homo sapiens germ cell-less homolog 1 (Drosophila) (GCL), mRNA
NM_178441	Homo sapiens zinc finger, FYVE domain containing 1 (ZFYVE1), transcript v
NM_178443	Homo sapiens UNC-112 related protein 2 (URP2), transcript variant URP2LF
NM_178445	Homo sapiens chemokine (C-C motif) receptor-like 1 (CCRL1), transcript var
NM_178448	Homo sapiens chromosome 9 open reading frame 140 (C9orf140), mRNA
NM_178449	Homo sapiens tuberoinfundibular 39 residue protein precursor (TIP39), mRN
NM_178450	Homo sapiens hypothetical protein MGC48332 (MGC48332), mRNA
NM_178451	Homo sapiens zinc finger, MYND domain containing 17 (ZMYND17), mRNA
NM_178452	Homo sapiens similar to RIKEN cDNA 4930457P18 (LOC123872), mRNA
NM_178453	Homo sapiens hypothetical protein MGC52282 (MGC52282), mRNA
NM_178454	Homo sapiens hypothetical protein MGC54289 (MGC54289), mRNA
NM_178456	Homo sapiens chromosome 20 open reading frame 85 (C20orf85), mRNA
NM_178460	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1-li
NM_178463	Homo sapiens chromosome 20 open reading frame 166 (C20orf166), mRNA
NM_178465	Homo sapiens TSPY-like 3 (TSPYL3), mRNA
NM_178466	Homo sapiens chromosome 20 open reading frame 71 (C20orf71), mRNA
NM_178467	Homo sapiens high-mobility group (nonhistone chromosomal) protein 4-like (
NM_178468	Homo sapiens chromosome 20 open reading frame 128 (C20orf128), mRNA
NM_178470	Homo sapiens WD repeat domain 40B (WDR40B), mRNA
NM_178471	Homo sapiens G protein-coupled receptor 119 (GPR119), mRNA
NM_178472	Homo sapiens chromosome 20 open reading frame 53 (C20orf53), mRNA
NM_178477	Homo sapiens chromosome 20 open reading frame 179 (C20orf179), mRNA
NM_178483	Homo sapiens chromosome 20 open reading frame 79 (C20orf79), mRNA
NM_178491	Homo sapiens R3H domain (binds single-stranded nucleic acids) containing-
NM_178493	Homo sapiens hypothetical protein LOC147111 (LOC147111), mRNA
NM_178494	Homo sapiens hypothetical protein FLJ40125 (FLJ40125), mRNA
NM_178495	Homo sapiens KIAA1754-like (KIAA1754L), mRNA
NM_178496	Homo sapiens similar to BcDNA:GH11415 gene product (LOC151963), mRN
NM_178497	Homo sapiens hypothetical protein FLJ23657 (FLJ23657), mRNA
NM_178498	Homo sapiens hypothetical protein MGC52019 (MGC52019), mRNA
NM_178499 NM_178500	Homo sapiens hypothetical protein MGC39827 (MGC39827), mRNA
NM 178500	Homo sapiens phosphatase, orphan 1 (PHOSPHO1), mRNA
14IVI_170JUZ	Homo sapiens deltex 3 homolog (Drosophila) (DTX3), mRNA

NM_178504	Homo sapiens hypothetical protein FLJ40427 (FLJ40427), mRNA
NM_178505	Homo sapiens transmembrane protein 26 (TMEM26), mRNA
NM_178507	Homo sapiens NS5ATP13TP2 protein (NS5ATP13TP2), mRNA
NM_178508	Homo sapiens hypothetical protein MGC57858 (MGC57858), mRNA
NM_178509	Homo sapiens syntaxin binding protein 4 (STXBP4), mRNA
NM_178510	Homo sapiens ankyrin repeat and kinase domain containing 1 (ANKK1), mRI
NM 178514	Homo sapiens hypothetical protein LOC283487 (LOC283487), mRNA
NM_178516	Homo sapiens hypothetical protein LOC283849 (LOC283849), mRNA
NM_178517	Homo sapiens phosphatidylinositol glycan, class W (PIGW), mRNA
NM_178518	Homo sapiens hypothetical protein FLJ36878 (FLJ36878), mRNA
NM_178519	Homo sapiens hypothetical protein FLJ39421 (FLJ39421), mRNA
NM_178520	Homo sapiens hypothetical protein FLJ38792 (FLJ38792), mRNA
NM_178523	Homo sapiens zinc finger protein 616 (ZNF616), mRNA
NM 178525	Homo sapiens hypothetical protein MGC33407 (MGC33407), mRNA
NM_178527	Homo sapiens hypothetical protein MGC43026 (MGC43026), mRNA
NM_178530	Homo sapiens hypothetical protein FLJ38379 (FLJ38379), mRNA
NM 178532	Homo sapiens hypothetical protein LOC285671 (LOC285671), mRNA
NM_178536	Homo sapiens lipocalin 12 (LCN12), mRNA
NM 178537	Homo sapiens beta1,4-N-acetylgalactosaminyltransferases IV (Beta4GalNAc
NM_178538	Homo sapiens hypothetical protein LOC338799 (LOC338799), mRNA
NM 178539	Homo sapiens TAFA2 protein (TAFA2), mRNA
NM_178540	Homo sapiens hypothetical protein MGC48915 (MGC48915), mRNA
NM_178542	Homo sapiens hypothetical protein DKFZp762C2414 (DKFZp762C2414), mF
NM_178543	Homo sapiens ectonucleotide pyrophosphatase/phosphodiesterase 7 (ENPF
NM_178544	Homo sapiens zinc finger protein 546 (ZNF546), mRNA
NM_178545	Homo sapiens hypothetical protein LOC339456 (LOC339456), mRNA
NM_178546	Homo sapiens hypothetical protein LOC339483 (LOC339483), mRNA
NM_178547	Homo sapiens archease (ARCH), mRNA
NM_178548	Homo sapiens adaptor-related protein complex 2, epsilon subunit (AP2E), ml
NM_178549	Homo sapiens hypothetical protein MGC42493 (MGC42493), mRNA
NM_178550	Homo sapiens hypothetical protein MGC48998 (MGC48998), mRNA
NM_178552	Homo sapiens hypothetical protein MGC35206 (MGC35206), mRNA
NM_178553	Homo sapiens hypothetical protein MGC44505 (MGC44505), mRNA
NM_178554	Homo sapiens kyphoscoliosis peptidase (KY), mRNA
NM_178555	Homo sapiens hypothetical protein FLJ25770 (FLJ25770), mRNA
NM_178556	Homo sapiens hypothetical protein FLJ36180 (FLJ36180), mRNA
NM_178557	Homo sapiens hypothetical protein FLJ37478 (FLJ37478), mRNA
NM_178558	Homo sapiens hypothetical protein FLJ90430 (FLJ90430), mRNA
NM_178559	Homo sapiens ATP-binding cassette, sub-family B (MDR/TAP), member 5 (A
NM_178562	Homo sapiens hypothetical protein MGC50844 (MGC50844), mRNA
NM_178563	Homo sapiens hypothetical protein LOC340351 (LOC340351), mRNA
NM_178564	Homo sapiens hypothetical protein LOC340371 (LOC340371), mRNA
NM_178565	Homo sapiens hypothetical protein MGC35555 (MGC35555), mRNA Homo sapiens zinc finger, DHHC domain containing 21 (ZDHHC21), mRNA
NM_178566	· · · · · · · · · · · · · · · · · · ·
NM_178568	
NM_178569	
NM_178570	
NM_178571	· · · · · · · · · · · · · · · · · · ·
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NM_178580	
NM_178581	
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NM_178585 NM_178586	
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NM_178587 F	Homo sapiens protein phosphatase 2, regulatory subunit B (B56), gamma isc
	Homo sapiens protein phosphatase 2, regulatory subunit B (B56), gamma isc
NM 178812 F	Homo sapiens LYRIC/3D3 (LYRIC), mRNA
NM 178813 F	Homo sapiens A-kinase anchoring protein 28 (AKAP28), mRNA
NM_178814 F	Homo sapiens adaptor-related protein complex 1, sigma 3 subunit (AP1S3),
NM 178815 H	Homo sapiens ADP-ribosylation factor-like 8 (ARL8), mRNA
NM_178816 H	Homo sapiens cancer susceptibility candidate 2 (CASC2), mRNA
NM_178817 H	Homo sapiens chromosome 21 open reading frame 61 (C21orf61), transcript
NM_178818 H	Homo sapiens chemokine-like factor super family 4 (CKLFSF4), transcript va
NM 178819 H	Homo sapiens putative lysophosphatidic acid acyltransferase (DKFZp586M1
NM_178820 H	Homo sapiens F-box protein 27 (FBXO27), mRNA
NM 178821 F	Homo sapiens hypothetical protein FLJ25955 (FLJ25955), mRNA
NM 178822 H	Homo sapiens immunoglobulin superfamily, member 10 (IGSF10), mRNA
NM 178823	Homo sapiens chromosome 6 open reading frame 165 (C6orf165), mRNA
NM_178824	Homo sapiens hypothetical protein FLJ33620 (FLJ33620), mRNA
NM 178826	Homo sapiens transmembrane protein 16D (TMEM16D), mRNA
NM 178827	Homo sapiens hypothetical protein FLJ35834 (FLJ35834), mRNA
NM 178828	Homo sapiens chromosome 9 open reading frame 79 (C9orf79), mRNA
NM_178829	Homo sapiens chromosome 7 open reading frame 34 (C7orf34), mRNA
NM 178830 H	Homo sapiens hypothetical protein FLJ36888 (FLJ36888), mRNA
NM 178831	Homo sapiens opposite strand transcription unit to STAG3 (GATS), mRNA
NM_178832 I	Homo sapiens chromosome 10 open reading frame 83 (C10orf83), mRNA
NM 178833 I	Homo sapiens hypothetical protein BC009732 (LOC133308), mRNA
NM 178834 I	Homo sapiens layilin (LOC143903), mRNA
NM 178835 I	Homo sapiens hypothetical protein LOC152485 (LOC152485), mRNA
NM 178836 I	Homo sapiens similar to CG12314 gene product (LOC201164), mRNA
NM 178837	Homo sapiens similar to hypothetical testis protein from macaque (LOC3529
NM 178838 I	Homo sapiens hypothetical protein LOC90768 (MGC45800), mRNA
NM 178839	Homo sapiens leucine rich repeat transmembrane neuronal 1 (LRRTM1), mF
NM 178840	Homo sapiens hypothetical protein MGC24047 (MGC24047), mRNA
NM 178841	Homo sapiens ring finger protein 166 (RNF166), mRNA
NM_178842	Homo sapiens LAG1 longevity assurance homolog 3 (S. cerevisiae) (LASS3)
NM 178844	Homo sapiens NOD3 protein (NOD3), mRNA
NM 178849	Homo sapiens hepatocyte nuclear factor 4, alpha (HNF4A), transcript variant
NM_178850	Homo sapiens hepatocyte nuclear factor 4, alpha (HNF4A), transcript variant
NM 178857	Homo sapiens retinitis pigmentosa 1-like 1 (RP1L1), mRNA
NM 178858	Homo sapiens sideroflexin 2 (SFXN2), mRNA
NM 178859	Homo sapiens organic solute transporter beta (OSTbeta), mRNA
NM 178860	Homo sapiens seizure related 6 homolog (mouse) (SEZ6), mRNA
NM 178861	Homo sapiens zinc finger protein 183-like 1 (ZNF183L1), mRNA
NM 178862	Homo sapiens source of immunodominant MHC-associated peptides (SIMP)
NM 178863	Homo sapiens potassium channel tetramerisation domain containing 13 (KC
NM 178864	Homo sapiens HLH-PAS transcription factor NXF (NXF), mRNA
NM 178865	Homo sapiens tumor differentially expressed 2-like (TDE2L), mRNA
NM 178867	Homo sapiens sideroflexin 4 (SFXN4), transcript variant 2, mRNA
NM 178868	Homo sapiens chemokine-like factor super family 8 (CKLFSF8), mRNA
NM 180699	Homo sapiens U11/U12 snRNP 35K (U1SNRNPBP), transcript variant 3, mR
NM 180703	Homo sapiens U11/U12 snRNP 35K (U1SNRNPBP), transcript variant 4, mR
NM_180976	Homo sapiens protein phosphatase 2, regulatory subunit B (B56), delta isofo
NM_180977	Homo sapiens protein phosphatase 2, regulatory subunit B (B56), delta isofo
NM_180981	Homo sapiens mitochondrial ribosomal protein L52 (MRPL52), nuclear gene
NM_180982	Homo sapiens mitochondrial ribosomal protein L52 (MRPL52), nuclear gene
NM_180989	Homo sapiens intimal thickness-related receptor (ITR), mRNA
NM_180990	Homo sapiens ligand-gated ion channel subunit (LGICZ), mRNA
NM_180991	Homo sapiens solute carrier organic anion transporter family, member 4C1 (
NM_181041	Homo sapiens polybromo 1 (PB1), mRNA
NM_181042	Homo sapiens polybromo 1 (PB1), mRNA
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NM_181050	Homo sapiens axin 1 (AXIN1), transcript variant 2, mRNA
NM_181054	Homo sapiens hypoxia-inducible factor 1, alpha subunit (basic helix-loop-heli
NM_181076	Homo sapiens golgin-67 (GOLGIN-67), transcript variant 2, mRNA
NM_181077	Homo sapiens golgin-67 (GOLGIN-67), transcript variant 3, mRNA
NM_181078	Homo sapiens interleukin 21 receptor (IL21R), transcript variant 2, mRNA
NM_181079	Homo sapiens interleukin 21 receptor (IL21R), transcript variant 3, mRNA
NM 181093	Homo sapiens ezrin-binding partner PACE-1 (PACE-1), transcript variant 2, r
NM 181265	Homo sapiens WD repeat domain 17 (WDR17), transcript variant 2, mRNA
NM 181268	Homo sapiens chemokine-like factor super family 1 (CKLFSF1), transcript va
NM_181269	Homo sapiens chemokine-like factor super family 1 (CKLFSF1), transcript va
NM_181270	Homo sapiens chemokine-like factor super family 1 (CKLFSF1), transcript va
NM 181271	Homo sapiens chemokine-like factor super family 1 (CKLFSF1), transcript va
NM_181272	Home senione chemokine-like factor super family 1 (CKLFSF1), transcript va
NM_181283	Homo sapiens chemokine-like factor super family 1 (CKLFSF1), transcript va
_	Homo sapiens chemokine-like factor super family 1 (CKLFSF1), transcript va
NM_181285	Homo sapiens chemokine-like factor super family 1 (CKLFSF1), transcript va
NM_181286	Homo sapiens chemokine-like factor super family 1 (CKLFSF1), transcript va
NM_181287	Homo sapiens chemokine-like factor super family 1 (CKLFSF1), transcript va
NM_181288	Homo sapiens chemokine-like factor super family 1 (CKLFSF1), transcript va
NM_181289	Homo sapiens chemokine-like factor super family 1 (CKLFSF1), transcript va
NM_181290	Homo sapiens chemokine-like factor super family 1 (CKLFSF1), transcript va
NM_181291	Homo sapiens WD repeat domain 20 (WDR20), transcript variant 1, mRNA
NM_181292	Homo sapiens chemokine-like factor super family 1 (CKLFSF1), transcript va
NM_181293	Homo sapiens chemokine-like factor super family 1 (CKLFSF1), transcript va
NM_181294	Homo sapiens chemokine-like factor super family 1 (CKLFSF1), transcript va
NM_181295	Homo sapiens chemokine-like factor super family 1 (CKLFSF1), transcript va
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NM_181297	Homo sapiens chemokine-like factor super family 1 (CKLFSF1), transcript va
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NM_181300	Homo sapiens chemokine-like factor super family 1 (CKLFSF1), transcript va
NM_181301	Homo sapiens chemokine-like factor super family 1 (CKLFSF1), transcript va
NM_181302	Homo sapiens WD repeat domain 20 (WDR20), transcript variant 4, mRNA
NM_181304	Homo sapiens mitochondrial ribosomal protein L52 (MRPL52), nuclear gene
NM_181305	Homo sapiens mitochondrial ribosomal protein L52 (MRPL52), nuclear gene
NM_181306	Homo saplens mitochondrial ribosomal protein L52 (MRPL52), nuclear gene
NM_181307	Homo sapiens mitochondrial ribosomal protein L52 (MRPL52), nuclear gene
NM_181308	Homo sapiens WD repeat domain 20 (WDR20), transcript variant 3, mRNA
NM_181309	Homo sapiens interleukin 22 receptor, alpha 2 (IL22RA2), transcript variant 2
NM_181310	Homo sapiens interleukin 22 receptor, alpha 2 (IL22RA2), transcript variant 3
NM_181311	Homo sapiens tafazzin (cardiomyopathy, dilated 3A (X-linked); endocardial fi
NM_181312	Homo sapiens tafazzin (cardiomyopathy, dilated 3A (X-linked); endocardial fi
NM_181313	Homo sapiens tafazzin (cardiomyopathy, dilated 3A (X-linked); endocardial fi
NM_181314	Homo saplens tafazzin (cardiomyopathy, dilated 3A (X-linked); endocardial fi
NM_181332	Homo sapiens neuroligin 4, X-linked (NLGN4X), transcript variant 2, mRNA
NM_181333	Homo sapiens Rho GTPase activating protein 8 (ARHGAP8), transcript varia
NM_181334	Homo sapiens Rho GTPase activating protein 8 (ARHGAP8), transcript varia
NM_181335	Homo sapiens Rho GTPase activating protein 8 (ARHGAP8), transcript varia
NM_181336	Homo sapiens LEM domain containing 2 (LEMD2), mRNA
NM_181337	Homo sapiens kidney associated antigen 1 (KAAG1), mRNA
NM_181339	Homo sapiens interleukin 24 (IL24), transcript variant 2, mRNA
NM_181340	Homo sapiens WD repeat domain 21 (WDR21), transcript variant 2, mRNA
NM_181341	Homo sapiens WD repeat domain 21 (VVDR21), transcript variant 3, mRNA
NM_181342	Homo sapiens FK506 binding protein 7 (FKBP7), transcript variant 2, mRNA
NM_181349	Homo sapiens SMAD specific E3 ubiquitin protein ligase 1 (SMURF1), transc
NM_181351	Homo sapiens neural cell adhesion molecule 1 (NCAM1), mRNA
NM_181353	Homo sapiens inhibitor of DNA binding 1, dominant negative helix-loop-helix
NM_181354	Homo sapiens oxidation resistance 1 (OXR1), mRNA

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Homo sapiens frequently rearranged in advanced T-cell lymphomas (FRAT1)
NM_181355
NM_181356
             Homo sapiens suppressor of Ty 3 homolog (S. cerevisiae) (SUPT3H), mRNA
NM 181357
             Homo sapiens WD repeat domain 23 (WDR23), transcript variant 2, mRNA
NM_181358
             Homo sapiens homeodomain interacting protein kinase 1 (HIPK1), transcript
NM 181359
             Homo sapiens interleukin 6 receptor (IL6R), transcript variant 2, mRNA
NM 181361
             Homo sapiens potassium large conductance calcium-activated channel, subt
             Homo sapiens Friedreich ataxia (FRDA), nuclear gene encoding mitochondri
NM 181425
             Homo sapiens GA binding protein transcription factor, beta subunit 2, 47kDa
NM 181427
NM_181428
             Homo sapiens thymosin-like 6 (TMSL6), mRNA
             Homo sapiens candidate taste receptor hT2R55 (hT2R55), mRNA
NM_181429
             Homo sapiens forkhead box K2 (FOXK2), transcript variant 2, mRNA
NM_181430
             Homo sapiens forkhead box K2 (FOXK2), transcript variant 3, mRNA
NM 181431
             Homo sapiens C1q and tumor necrosis factor related protein 3 (C1QTNF3), r
NM 181435
             Homo sapiens mitochondrial ribosomal protein L55 (MRPL55), nuclear gene
NM_181441
             Homo sapiens activity-dependent neuroprotector (ADNP), transcript variant 2
NM_181442
NM_181443
             Homo sapiens BTB (POZ) domain containing 3 (BTBD3), transcript variant 2.
NM 181446
             Homo sapiens follicle stimulating hormone receptor (FSHR), transcript variar
NM 181449
             Homo sapiens immune receptor expressed on myeloid cells 2 (IREM2), mRN
NM_181453
             Homo sapiens GRIP and coiled-coil domain containing 2 (GCC2), transcript v
NM_181454
             Homo sapiens mitochondrial ribosomal protein L55 (MRPL55), nuclear gene
NM_181455
             Homo sapiens mitochondrial ribosomal protein L55 (MRPL55), nuclear gene
NM_181456
             Homo sapiens mitochondrial ribosomal protein L55 (MRPL55), nuclear gene
             Homo sapiens paired box gene 3 (Waardenburg syndrome 1) (PAX3), transc
NM 181457
             Homo sapiens paired box gene 3 (Waardenburg syndrome 1) (PAX3), transc
NM 181458
NM 181459
             Homo sapiens paired box gene 3 (Waardenburg syndrome 1) (PAX3), transc
NM 181460
             Homo sapiens paired box gene 3 (Waardenburg syndrome 1) (PAX3), transc
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             Homo sapiens paired box gene 3 (Waardenburg syndrome 1) (PAX3), transc
             Homo sapiens mitochondrial ribosomal protein L55 (MRPL55), nuclear gene
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NM_181463
             Homo sapiens mitochondrial ribosomal protein L55 (MRPL55), nuclear gene
NM 181464
             Homo sapiens mitochondrial ribosomal protein L55 (MRPL55), nuclear gene
NM 181465
             Homo sapiens mitochondrial ribosomal protein L55 (MRPL55), nuclear gene
NM 181466
             Homo sapiens integrin beta 4 binding protein (ITGB4BP), transcript variant 4
NM 181467
             Homo sapiens integrin beta 4 binding protein (ITGB4BP), transcript variant 5
NM 181468
             Homo sapiens integrin beta 4 binding protein (ITGB4BP), transcript variant 2
NM 181469
            Homo sapiens integrin beta 4 binding protein (ITGB4BP), transcript variant 3
NM_181471
            Homo sapiens replication factor C (activator 1) 2, 40kDa (RFC2), transcript v
NM_181472
            Homo sapiens chemokine-like factor super family 7 (CKLFSF7), transcript va
            Homo sapiens chromosome 18 open reading frame 1 (C18orf1), transcript ve
NM_181481
NM 181482
            Homo sapiens chromosome 18 open reading frame 1 (C18orf1), transcript ve
            Homo sapiens chromosome 18 open reading frame 1 (C18orf1), transcript νε
NM 181483
NM_181484
            Homo sapiens KIAA1847 (KIAA1847), transcript variant 2, mRNA
NM_181485
            Homo sapiens KIAA1847 (KIAA1847), transcript variant 3, mRNA
NM_181486
            Homo sapiens T-box 5 (TBX5), transcript variant 4, mRNA
NM_181489
            Homo sapiens zinc finger protein 445 (ZNF445), mRNA
NM_181491
            Homo sapiens surfeit 5 (SURF5), transcript variant c, mRNA
NM_181492
            Homo sapiens transcription factor 20 (AR1) (TCF20), transcript variant 2, mF
NM_181493
            Homo sapiens inosine triphosphatase (nucleoside triphosphate pyrophospha
NM_181500
            Homo sapiens cut-like 1, CCAAT displacement protein (Drosophila) (CUTL1)
            Homo sapiens integrin, alpha 1 (ITGA1), mRNA
NM_181501
            Homo sapiens serine protease inhibitor-like, with Kunitz and WAP domains 1
NM 181502
            Homo sapiens exosome component 8 (EXOSC8), mRNA
NM 181503
            Homo sapiens phosphoinositide-3-kinase, regulatory subunit, polypeptide 1 (
NM 181504
            Homo sapiens protein phosphatase 1, regulatory (inhibitor) subunit 1B (dopa
NM 181505
NM_181506
            Homo sapiens synleurin (SLRN), mRNA
NM_181507
            Homo sapiens Hermansky-Pudlak syndrome 5 (HPS5), transcript variant 1, r
NM 181508
            Homo sapiens Hermansky-Pudlak syndrome 5 (HPS5), transcript variant 3, r
NM 181509
            Homo sapiens microtubule-associated protein 1 light chain 3 alpha (MAP1LC
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NM_181510	Homo sapiens WAP four-disulfide core domain 8 (WFDC8), transcript varian
NM_181512	Homo sapiens mitochondrial ribosomal protein L21 (MRPL21), nuclear gene
NM 181513	Homo sapiens mitochondrial ribosomal protein L21 (MRPL21), nuclear gene
NM_181514	Homo sapiens mitochondrial ribosomal protein L21 (MRPL21), nuclear gene
NM_181515	Homo sapiens mitochondrial ribosomal protein L21 (MRPL21), nuclear gene
NM 181519	Homo sapiens synaptotagmin XV (SYT15), transcript variant b, mRNA
NM_181521	Homo sapiens chemokine-like factor super family 4 (CKLFSF4), transcript va
NM 181522	Homo sapiens WAP four-disulfide core domain 3 (WFDC3), transcript varian
NM 181523	Homo sapiens phosphoinositide-3-kinase, regulatory subunit, polypeptide 1 (
NM_181524	Homo sapiens phosphoinositide-3-kinase, regulatory subunit, polypeptide 1 (
NM_181525	Homo sapiens WAP four-disulfide core domain 3 (WFDC3), transcript varian
NM_181526	Homo sapiens myosin, light polypeptide 9, regulatory (MYL9), transcript varia
NM_181527	Homo sapiens N-acetyltransferase 5 (ARD1 homolog, S. cerevisiae) (NAT5),
NM_181528	Homo sapiens N-acetyltransferase 5 (ARD1 homolog, S. cerevisiae) (NAT5),
NM_181530	Homo sapiens WAP four-disulfide core domain 3 (WFDC3), transcript varian
NM_181531	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), transcript va
NM_181532	Homo sapiens ES cell expressed Ras (ERAS), mRNA
NM_181533	Homo sapiens chromosome 14 open reading frame 29 (C14orf29), transcript
NM_181534	Homo sapiens keratin 25A (KRT25A), mRNA
NM_181535	Homo sapiens keratin 25D (KRT25D), mRNA
NM_181536	Homo sapiens polycystic kidney disease 1-like 3 (PKD1L3), mRNA
NM_181537	Homo sapiens keratin 25C (KRT25C), mRNA
NM_181538	Homo sapiens gap junction protein, epsilon 1, 29kDa (GJE1), mRNA
NM_181539	Homo sapiens keratin 25B (KRT25B), mRNA
NM_181552	Homo sapiens cut-like 1, CCAAT displacement protein (Drosophila) (CUTL1)
NM_181553	Homo sapiens chemokine-like factor super family 3 (CKLFSF3), transcript va
NM_181554	Homo sapiens chemokine-like factor super family 3 (CKLFSF3), transcript va
NM_181555	Homo sapiens chemokine-like factor super family 3 (CKLFSF3), transcript va
NM_181558	Homo sapiens replication factor C (activator 1) 3, 38kDa (RFC3), transcript v
NM_181571	Homo sapiens cAMP responsive element modulator (CREM), transcript varia
NM_181572	Homo sapiens regulator of G-protein signalling like 1 (RGSL1), mRNA
NM_181573	Homo sapiens replication factor C (activator 1) 4, 37kDa (RFC4), transcript v
NM_181575	Homo sapiens an cient ubiquitous protein 1 (AUP1), transcript variant 2, mRN
NM_181576	Homo sapiens an cient ubiquitous protein 1 (AUP1), transcript variant 3, mRN
NM_181578	Homo sapiens replication factor C (activator 1) 5, 36.5kDa (RFC5), transcript
NM_181581	Homo sapiens protein similar to E.coli yhdg and R. capsulatus nifR3 (PP35),
NM_181597	Homo sapiens uridine phosphorylase 1 (UPP1), transcript variant 2, mRNA
NM_181598	Homo saplens spastic paraplegia 3A (autosomal dominant) (SPG3A), mRNA
NM_181599	Homo sapiens keratin associated protein 13-1 (KRTAP13-1), mRNA
NM_181600 NM_181602	Homo sapiens ke ratin associated protein 13-4 (KRTAP13-4), mRNA
NM_181604	Homo sapiens ke ratin associated protein 6-1 (KRTAP6-1), mRNA
NM_181605	Homo sapiens ke ratin associated protein 6-2 (KRTAP6-2), mRNA
NM_181607	Homo sapiens ke ratin associated protein 6-3 (KRTAP6-3), mRNA Homo sapiens ke ratin associated protein 19-1 (KRTAP19-1), mRNA
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NM_181609	Homo sapiens keratin associated protein 19-2 (KRTAP19-2), mRNA
NM 181610	Homo sapiens ke ratin associated protein 19-3 (KRTAP19-3), mRNA
NM_181611	Homo sapiens keratin associated protein 19-4 (KRTAP19-4), mRNA
NM 181612	Homo sapiens keratin associated protein 19-6 (KRTAP19-6), mRNA
NM 181614	Homo sapiens keratin associated protein 19-6 (KRTAP19-6), mRNA
NM 181615	Homo sapiens keratin associated protein 20-1 (KRTAP-19-7), mRNA
NM 181616	Homo sapiens keratin associated protein 20-2 (KRTAP20-1), mRNA
NM_181617	Homo sapiens keratin associated protein 21-2 (KRTAP21-2), mRNA
NM 181618	Homo sapiens chemokine-like factor super family 5 (CKLFSF5), transcript va
NM 181619	Homo sapiens keratin associated protein 21-1 (KRTAP21-1), mRNA
NM 181620	Homo sapiens keratin associated protein 22-1 (KRTAP22-1), mRNA
NM_181621	Homo sapiens keratin associated protein 13-2 (KRTAP13-2), nuclear gene e
_	

NM_181622	Homo sapiens keratin associated protein 13-3 (KRTAP13-3), mRNA
NM 181623	Homo sapiens keratin associated protein 15-1 (KRTAP15-1), mRNA
NM 181624	Homo sapiens keratin associated protein 23-1 (KRTAP23-1), mRNA
NM 181640	Homo sapiens chemokine-like factor (CKLF), transcript variant 2, mRNA
NM 181641	Homo sapiens chemokine-like factor (CKLF), transcript variant 4, mRNA
NM_181642	Homo sapiens serine protease inhibitor, Kunitz type 1 (SPINT1), transcript va
NM_181643	Homo sapiens hypothetical protein LOC128344 (LOC128344), mRNA
NM_181644	Homo sapiens hypothetical protein DKFZp761N1114 (DKFZp761N1114), mF
NM 181645	Homo sapiens hypothetical protein FLJ25393 (FLJ25393), mRNA
_	Homo sapiens hypothetical protein FLJ32110 (FLJ32110), mRNA
NM_181646 NM_181647	Homo sapiens hypothetical protein LOC285398 (LOC285398), mRNA
_	Homo sapiens peroxiredoxin 5 (PRDX5), nuclear gene encoding mitochondri
NM_181651	Homo sapiens peroxiredoxin 5 (PRDX5), nuclear gene encoding mitochondri
NM_181652	Homo sapiens complexin 4 (CPLX4), mRNA
NM_181654	Homo sapiens complexin 4 (GF LX4), mixtx Homo sapiens hypothetical protein LOC284018 (LOC284018), transcript vari
NM_181655	Homo sapiens hypothetical protein LOC284018 (LOC284018), transcript vari
NM_181656	
NM_181657	Homo sapiens leukotriene B4 receptor (LTB4R), mRNA Homo sapiens nuclear receptor coactivator 3 (NCOA3), transcript variant 1, r
NM_181659	Homo sapiens nuclear receptor coactivator 5 (NCOA5), transcript variant 1, 1
NM_181661	Homo sapiens Cohen syndrome 1 (COH1), transcript variant 4, mRNA
NM_181670	Homo sapiens E2a-Pbx1-associated protein (EB-1), transcript variant 2, mRN
NM_181671	Homo sapiens phosphatidylinositol transfer protein, cytoplasmic 1 (PITPNC1
NM_181672	Homo sapiens O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine)
NM_181673	Homo sapiens O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine)
NM_181674	Homo sapiens protein phosphatase 2 (formerly 2A), regulatory subunit B (PF
NM_181675	Homo sapiens protein phosphatase 2 (formerly 2A), regulatory subunit B (PF
NM_181676	Homo sapiens protein phosphatase 2 (formerly 2A), regulatory subunit B (PF
NM_181677	Homo sapiens protein phosphatase 2 (formerly 2A), regulatory subunit B (PF
NM_181678	Homo sapiens protein phosphatase 2 (formerly 2A), regulatory subunit B (PF
NM_181679	Homo sapiens NFS1 nitrogen fixation 1 (S. cerevisiae) (NFS1), nuclear gene
NM_181684	Homo sapiens keratin associated protein 12-2 (KRTAP12-2), mRNA
NM_181686	Homo sapiens keratin associated protein 12-1 (KRTAP12-1), mRNA
NM_181688	Homo sapiens keratin associated protein 10-10 (KRTAP10-10), mRNA
NM_181689	Homo sapiens neuronatin (NNAT), transcript variant 2, mRNA
NM_181690	Homo sapiens v-akt murine thymoma viral oncogene homolog 3 (protein kina
NM_181696	Homo sapiens peroxiredoxin 1 (PRDX1), transcript variant 2, mRNA
NM_181697	Homo sapiens peroxiredoxin 1 (PRDX1), transcript variant 3, mRNA
NM_181698	Homo sapiens chromosome 10 open reading frame 9 (C10orf9), mRNA
NM_181699	Homo sapiens protein phosphatase 2 (formerly 2A), regulatory subunit A (PF
NM_181701	Homo saplens quiescin Q6-like 1 (QSCN6L1), mRNA
NM_181702	Homo sapiens GTP binding protein overexpressed in skeletal muscle (GEM).
NM_181703	Homo sapiens gap junction protein, alpha 5, 40kDa (connexin 40) (GJA5), tre
NM_181704	Homo sapiens B melanoma antigen family, member 4 (BAGE4), mRNA
NM_181705	Homo sapiens hypothetical protein LOC90624 (LOC90624), mRNA
NM_181706	Homo sapiens zinc finger, CSL domain containing 3 (ZCSL3), mRNA
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NM_181708	Homo sapiens hypothetical protein LOC144233 (LOC144233), mRNA
NM_181709	Homo sapiens hypothetical protein LOC144347 (LOC144347), mRNA
NM_181710	Homo sapiens zinc and ring finger 4 (ZNRF4), mRNA
NM_181711	Homo sapiens GRP1 (general receptor for phosphoinositides 1)-associated (
NM_181712	Homo sapiens hypothetical protein LOC163782 (LOC163782), mRNA
NM_181713	Homo sapiens UBX domain containing 4 (UBXD4), mRNA
NM_181714	Homo sapiens chromosome 6 open reading frame 152 (C6orf152), mRNA
NM_181715	Homo sapiens transducer of regulated cAMP response element-binding prote
NM_181716	Homo sapiens nuclear protein p30 (p30), mRNA
NM_181717	Homo sapiens HLA complex group 27 (HCG27), mRNA
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NM 181725	Homo sapiens hypothetical protein FLJ12760 (FLJ12760), mRNA
NM_181726	Homo sapiens low density lipoprotein receptor-related protein binding proteir
NM_181727	Homo sapiens spermatogenesis associated 12 (SPATA12), mRNA
NM_181733	Homo sapiens component of oligomeric golgi complex 5 (COG5), transcript v
NM 181737	Homo sapiens peroxiredoxin 2 (PRDX2), nuclear gene encoding mitochondri
NM_181738	Homo sapiens peroxiredoxin 2 (PRDX2), nuclear gene encoding mitochondri
NM_181739	Home sanions WINS1 protein with Dresenbile Lines (Lin) homelesses demand
NM 181740	Homo sapiens WINS1 protein with Drosophila Lines (Lin) homologous doma
NM_181741	Homo sapiens WINS1 protein with Drosophila Lines (Lin) homologous doma
_	Homo sapiens origin recognition complex, subunit 4-like (yeast) (ORC4L), tra
NM_181742	Homo sapiens origin recognition complex, subunit 4-like (yeast) (ORC4L), tra
NM_181744	Homo sapiens opsin 5 (OPN5), mRNA
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NM_181746	Homo sapiens LAG1 longevity assurance homolog 2 (S. cerevisiae) (LASS2)
NM_181747	Homo sapiens origin recognition complex, subunit 5-like (yeast) (ORC5L), tra
NM_181755	Homo sapiens hydroxysteroid (11-beta) dehydrogenase 1 (HSD11B1), transc
NM_181756	Homo sapiens zinc finger protein 233 (ZNF233), mRNA
NM_181762	Homo sapiens ubiquitin-conjugating enzyme E2A (RAD6 homolog) (UBE2A),
NM_181773	Homo sapiens ARP10 protein (ARP10), mRNA
NM_181774	Homo sapiens solute carrier family 36 (proton/amino acid symporter), membr
NM_181775	Homo sapiens hypothetical protein DKFZp434G0625 (DKFZp434G0625), mf
NM_181776	Homo sapiens solute carrier family 36 (proton/amino acid symporter), member
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NM_181781	Homo sapiens hypothetical protein FLJ20403 (FLJ20403), transcript variant :
NM_181782	Homo sapiens nuclear receptor coactivator 7 (NCOA7), mRNA
NM_181783	Homo sapiens SMILE protein (SMILE), mRNA
NM_181784	Homo sapiens sprouty-related, EVH1 domain containing 2 (SPRED2), mRN/
NM_181785	Homo sapiens hypothetical protein LOC283537 (LOC283537), mRNA
NM_181786	Homo sapiens GLI-Kruppel family member HKR1 (HKR1), mRNA
NM_181787	Homo sapiens hypothetical protein LOC286148 (LOC286148), mRNA
NM_181788	Homo sapiens HANP1 (LOC341567), mRNA
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NM_181795	Homo sapiens protein kinase (cAMP-dependent, catalytic) inhibitor beta (PKI
NM_181797	Homo sapiens potassium voltage-gated channel, KQT-like subfamily, member
NM_181798	Homo sapiens potassium voltage-gated channel, KQT-like subfamily, membe
NM_181799	Homo sapiens ubiquitin-conjugating enzyme E2C (UBE2C), transcript varian
NM_181800	Homo sapiens ubiquitin-conjugating enzyme E2C (UBE2C), transcript varian
NM_181801	Homo sapiens ubiquitin-conjugating enzyme E2C (UBE2C), transcript varian
NM_181802	Homo sapiens ubiquitin-conjugating enzyme E2C (UBE2C), transcript varian
NM_181803	Homo sapiens ubiquitin-conjugating enzyme E2C (UBE2C), transcript varian
NM_181804 NM_181805	Homo sapiens protein kinase (cAMP-dependent, catalytic) inhibitor gamma (l
_	Homo sapiens protein kinase (cAMP-dependent, catalytic) inhibitor gamma (l
NM_181806	Homo sapiens 2-aminoadipic 6-semialdehyde dehydrogenase (NRPS998), n
NM_181807	Homo sapiens doublecortin domain containing 1 (DCDC1), mRNA
NM_181808	Homo sapiens polymerase (DNA directed) nu (POLN), mRNA
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NM_181814 NM_181825	Homo sapiens chromosome 14 open reading frame 29 (C14orf29), transcript
NM_181826	Homo sapiens neurofibromin 2 (bilateral acoustic neuroma) (NF2), transcript Homo sapiens neurofibromin 2 (bilateral acoustic neuroma) (NF2), transcript
14101_101020	tionio dapiono neuronibiotnin 2 (bilateral acoustic neuronia) (NF2), transcript

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NM 181838
             Homo sapiens ubiquitin-conjugating enzyme E2D 2 (UBC4/5 homolog, yeast
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             Homo sapiens protein kinase (cAMP-dependent, catalytic) inhibitor alpha (Pł
NM 181840
             Homo sapiens TWIK-related spinal cord K+ channel (TRIK), mRNA
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             Homo saplens transmembrane channel-like 3 (TMC3), mRNA
NM 181842
             Homo sapiens zinc finger and BTB domain containing 12 (ZBTB12), mRNA
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NM 181844
             Homo sapiens B-cell CLL/lymphoma 6, member B (zinc finger protein) (BCL6
NM 181846 Homo sapiens GLI-Kruppel family member HKR2 (HKR2), mRNA
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             Homo sapiens zinc finger protein 29 (ZFP29), mRNA
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             Homo sapiens periaxin (PRX), mRNA
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NM 181985
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NM 181986
             Homo sapiens leukocyte Ig-like receptor 9 (LIR9), transcript variant 4, mRNA
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             Homo sapiens cytosolic ovarian carcinoma antigen 1 (COVA1), transcript vai
             Homo sapiens ribosomal protein S6 kinase, 90kDa, polypeptide 5 (RPS6KA£
NM 182398
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             Homo sapiens pyruvate kinase, muscle (PKM2), transcript variant 2, mRNA
             Homo sapiens pyruvate kinase, muscle (PKM2), transcript variant 3, mRNA
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NM 182480	Homo sapiens coenzyme Q6 homolog (yeast) (COQ6), transcript variant 2, n
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NM 182482	Homo sapiens B melanoma antigen family, member 2 (BAGE2), mRNA
NM_182483	Homo sapiens NSFL1 (p97) cofactor (p47) (NSFL1C), transcript variant 3, m
NM_182484	Homo sapiens B melanoma antigen family, member 5 (BAGE5), mRNA
NM_182485	Homo sapiens cytoplasmic polyadenylation element binding protein 2 (CPEB
NM_182486	Homo sapiens C1q and tumor necrosis factor related protein 6 (C1QTNF6), t
NM 182487	Homo sapiens olfactomedin-like 2A (OLFML2A), mRNA
NM_182488	Homo sapiens ubiquitin specific protease 12 (USP12), mRNA
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NM_182490	Homo sapiens zinc finger protein 227 (ZNF227), mRNA
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NM 182493	Homo sapiens myosin light chain kinase (MLCK) (LOC91807), mRNA
NM_182494	Homo sapiens family with sequence similarity 26, member A (FAM26A), mRt
NM_182495	Homo sapiens hypothetical protein FLJ25224 (FLJ25224), mRNA
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NM 182497	Homo sapiens type I hair keratin KA36 (KA36), mRNA
NM 182498	Homo sapiens hypothetical protein MGC51082 (MGC51082), mRNA
NM 182499	Homo sapiens hypothetical protein DKFZp434M202 (DKFZp434M202), mRN
NM 182500	Homo sapiens hypothetical protein FLJ25143 (FLJ25143), mRNA
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NM 182502	Homo sapiens hypothetical protein DKFZp686L1818 (DKFZp686L1818), mR
NM 182503	Homo sapiens deaminase domain containing 1 (DEADC1), mRNA
NM_182504	Homo sapiens Williams-Beuren syndrome critical region 28 (WBSCR28), mF
NM_182505	Homo sapiens chromosome 9 open reading frame 85 (C9orf85), transcript va
NM_182506	Homo sapiens hypothetical protein FLJ32965 (FLJ32965), mRNA
NM 182507	Homo sapiens hypothetical protein LOC144501 (LOC144501), mRNA
NM 182508	Homo sapiens hypothetical protein FLJ40919 (FLJ40919), mRNA
NM_182509	Homo sapiens thrombospondin, type I, domain containing 3 (THSD3), transc
NM 182510	Homo sapiens hypothetical protein FLJ32252 (FLJ32252), mRNA
NM 182511	Homo sapiens cerebellin 2 precursor (CBLN2), mRNA
NM 182513	Homo sapiens kinetochore protein Spc24 (Spc24), mRNA
NM 182516	Homo sapiens hypothetical protein FLJ32011 (FLJ32011), mRNA
NM 182517	Homo sapiens hypothetical protein MGC52423 (MGC52423), mRNA
NM 182518	Homo sapiens hypothetical protein LOC149469 (LOC149469), mRNA
NM_182519	Homo sapiens chromosome 20 open reading frame 186 (C20orf186), mRNA
NM_182520	Homo sapiens chromosome 22 open reading frame 15 (C22orf15), mRNA
NM_182521	Homo sapiens zinc finger, SWIM domain containing 2 (ZSWIM2), mRNA
NM_182522	Homo sapiens TAFA4 protein (TAFA4), mRNA
NM_182523	Homo sapiens hypothetical protein MGC61571 (MGC61571), mRNA
NM_182524	Homo sapiens zinc finger protein 595 (ZNF595), mRNA
NM_182525	Homo sapiens hypothetical protein FLJ32770 (FLJ32770), mRNA
NM_182526	Homo sapiens hypothetical protein FLJ33387 (FLJ33387), mRNA
NM_182527	Homo sapiens calcium binding protein 7 (CABP7), mRNA
NM_182528	Homo saplens complement component 1, q subcomponent-like 2 (C1QL2), r
NM_182529	Homo sapiens THAP domain containing 5 (THAP5), mRNA
NM_182530	Homo sapiens hypothetical protein FLJ25056 (FLJ25056), mRNA
NM_182531	Homo sapiens hypothetical protein FLJ31875 (FLJ31875), mRNA
NM_182532	Homo sapiens hypothetical protein LOC199964 (LOC199964), mRNA
NM_182533	Homo sapiens hypothetical protein FLJ31031 (FLJ31031), mRNA
NM_182534	
NM_182535	
NM_182536	Homo sapiens down-regulated in gastric cancer GDDR (GDDR), mRNA

NM_182537	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 3 family member D (
NM_182538	Homo sapiens hypothetical protein MGC29671 (MGC29671), mRNA
NM_182539	Homo sapiens hypothetical protein MGC33600 (MGC33600), mRNA
NM_182541	Homo sapiens transmembrane protein 31 (TMEM31), mRNA
NM_182543	Homo sapiens nucleolar protein (NOL1/NOP2/sun) and PUA domains 1 (NO
NM_182546	Homo sapiens hypothetical protein MGC33530 (MGC33530), mRNA
NM_182547	Homo sapiens putative NFkB activating protein HNLF (HNLF), mRNA
NM_182548	Homo sapiens hypothetical protein MGC33835 (MGC33835), mRNA
NM_182549	Homo sapiens major histocompatibility complex, class II, DQ beta 2 (HLA-DC
NM_182551	Homo sapiens acyl-CoA:lysocardiolipin acyltransferase 1 (ALCAT1), transcri
NM_182552	Homo sapiens hypothetical protein MGC43690 (MGC43690), mRNA
NM_182553	Homo sapiens hypothetical protein MGC50896 (MGC50896), mRNA
NM_182554	Homo sapiens chromosome 10 open reading frame 53 (C10orf53), mRNA
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NM_182557	Homo sapiens B-cell CLL/lymphoma 9-like (BCL9L), mRNA
NM_182558	Homo sapiens hypothetical protein FLJ33810 (FLJ33810), mRNA
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NM 182568	Homo sapiens hypothetical protein FLJ36492 (FLJ36492), mRNA
NM 182569	Homo sapiens hypothetical protein FLJ37451 (FLJ37451), mRNA
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NM 182572	Homo sapiens zinc finger and SCAN domain containing 1 (ZSCAN1), mRNA
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NM_182575	Homo sapiens hypothetical protein MGC34799 (MGC34799), mRNA
NM_182577	Homo sapiens chromosome 19 open reading frame 19 (C19orf19), mRNA
NM_182578	Homo sapiens hypothetical protein FLJ37964 (FLJ37964), mRNA
NM_182579	Homo sapiens hypothetical protein FLJ40343 (FLJ40343), mRNA
NM_182580	Homo sapiens cytochrome b-561 domain containing 1 (CYB561D1), mRNA
NM_182581	Homo sapiens hypothetical protein LOC284680 (LOC284680), mRNA
NM_182583	Homo sapiens hypothetical protein FLJ38374 (FLJ38374), mRNA
NM_182584	Homo sapiens hypothetical protein FLJ33706 (FLJ33706), mRNA
NM_182585	Homo sapiens hypothetical protein DKFZp451M2119 (DKFZp451M2119), ml
NM_182586	Homo sapiens hypothetical protein FLJ33534 (FLJ33534), mRNA
NM_182587	Homo sapiens chromosome 2 open reading frame 21 (C2orf21), mRNA
NM_182589	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 3, family member E
NM_182590	Homo sapiens hypothetical protein FLJ33651 (FLJ33651), mRNA
NM_182591	Homo sapiens hypothetical protein FLJ37673 (FLJ37673), mRNA
NM_182592	Homo sapiens hypothetical protein FLJ39576 (FLJ39576), mRNA
NM_182594	Homo sapiens zinc finger protein 454 (ZNF454), mRNA
NM_182595	Homo sapiens hypothetical protein DKFZp564N2472 (DKFZp564N2472), mF
NM_182596	Homo sapiens hypothetical protein FLJ25037 (FLJ25037), mRNA
NM_182597	Homo sapiens hypothetical protein FLJ39575 (FLJ39575), mRNA
NM_182598	Homo sapiens hypothetical protein FLJ36980 (FLJ36980), mRNA
NM_182600	Homo sapiens hypothetical protein LOC286359 (LOC286359), mRNA
NM_182603	Homo sapiens hypothetical protein FLJ37874 (FLJ37874), mRNA
NM_182605	Homo sapiens hypothetical protein FLJ40448 (FLJ40448), mRNA
NM_182606	Homo sapiens hypothetical protein LOC339967 (LOC339967), mRNA
NM_182607	Homo sapiens hypothetical protein MGC44287 (MGC44287), mRNA
NM_182608	Homo sapiens hypothetical protein DKFZp686O1689 (DKFZp686O1689), ml
NM_182609	Homo sapiens hypothetical protein MGC48625 (MGC48625), mRNA

NM_182610	Homo sapiens sterile alpha motif domain containing 7 (SAMD7), mRNA
NM_182611	Homo sapiens G protein-coupled receptor 144 (GPR144), mRNA
NM_182612	Homo sapiens hypothetical protein FLJ34283 (FLJ34283), mRNA
NM_182613	Homo sapiens hypothetical protein FLJ33915 (FLJ33915), mRNA
NM_182614	Homo sapiens hypothetical protein MGC20579 (MGC20579), mRNA
NM 182615	Homo sapiens hypothetical protein MGC40069 (MGC40069), mRNA
NM_182616	Homo sapiens hypothetical protein MGC61550 (MGC61550), mRNA
NM_182617	Homo sapiens xenobiotic/medium-chain fatty acid:CoA ligase (HXMA), nucle
NM 182619	Homo sapiens secretory protein LOC348174 (LOC348174), mRNA
NM 182620	Homo sapiens family with sequence similarity 33, member A (FAM33A), mRt
NM_182621	Homo sapiens hypothetical protein MGC52498 (MGC52498), mRNA
NM 182623	Homo sapiens hypothetical protein FLJ36766 (FLJ36766), mRNA
NM_182625	Homo sapiens hypothetical protein FLJ40869 (FLJ40869), mRNA
NM 182626	Homo sapiens hypothetical protein FLJ25102 (FLJ25102), mRNA
NM_182627	Homo sapiens hypothetical protein MGC64882 (MGC64882), mRNA
NM 182628	Homo sapiens hypothetical protein FLJ40083 (FLJ40083), mRNA
NM 182631	Homo sapiens hypothetical protein LOC348840 (LOC348840), mRNA
NM_182632	Homo sapiens solute carrier family 6 (neurotransmitter transporter), member
NM_182633	Homo sapiens hypothetical protein FLJ39963 (FLJ39963), mRNA
NM_182634	Homo sapiens hypothetical protein FLJ36166 (FLJ36166), mRNA
NM 182635	
NM_182637	Homo sapiens hypothetical protein LOC349236 (LOC349236), mRNA
NM 182638	Homo sapiens Hermansky-Pudlak syndrome 1 (HPS1), transcript variant 2, r
NM 182639	Homo sapiens Hermansky-Pudlak syndrome 1 (HPS1), transcript variant 4, r
NM 182640	Homo sapiens Hermansky-Pudlak syndrome 1 (HPS1), transcript variant 3, r
_	Homo sapiens mitochondrial ribosomal protein S9 (MRPS9), nuclear gene er
NM_182641	Homo sapiens fetal Alzheimer antigen (FALZ), transcript variant 1, mRNA
NM_182642	Homo sapiens CTD (carboxy-terminal domain, RNA polymerase II, polypepti
NM_182643	Homo sapiens deleted in liver cancer 1 (DLC1), transcript variant 1, mRNA
NM_182644	Homo sapiens EphA3 (EPHA3), transcript variant 2, mRNA
NM_182645	Homo sapiens vestigial like 2 (Drosophila) (VGLL2), transcript variant 1, mRI
NM_182646	Homo sapiens cytoplasmic polyadenylation element binding protein 2 (CPEB
NM_182647	Homo sapiens opiate receptor-like 1 (OPRL1), transcript variant 1, mRNA
NM_182648	Homo sapiens bromodomain adjacent to zinc finger domain, 1A (BAZ1A), tra
NM_182649	Homo sapiens proliferating cell nuclear antigen (PCNA), transcript variant 2,
NM_182658	Homo sapiens chromosome 20 open reading frame 185 (C20orf185), mRNA
NM_182659	Homo sapiens ubiquitously transcribed tetratricopeptide repeat gene, Y-linke
NM_182660	Homo sapiens ubiquitously transcribed tetratricopeptide repeat gene, Y-linke
NM_182661	Homo sapiens ceramide kinase (CERK), transcript variant 2, mRNA
NM_182662	Homo sapiens aminoadipate aminotransferase (AADAT), transcript variant 2.
NM_182663	Homo sapiens Ras association (RalGDS/AF-6) domain family 5 (RASSF5), ti
NM_182664	Homo sapiens Ras association (RalGDS/AF-6) domain family 5 (RASSF5), to
NM_182665	Homo sapiens Ras association (RalGDS/AF-6) domain family 5 (RASSF5), ti
NM_182666	Homo sapiens ubiquitin-conjugating enzyme E2E 1 (UBC4/5 homolog, yeast
NM_182676	Homo sapiens phospholipid transfer protein (PLTP), transcript variant 2, mRI
NM_182678	Homo sapiens ubiquitin-conjugating enzyme E2E 3 (UBC4/5 homolog, yeast
NM_182679	Homo sapiens hypothetical protein FLJ20249 (FLJ20249), transcript variant :
NM_182680	Homo sapiens amelogenin (amelogenesis imperfecta 1, X-linked) (AMELX),
NM_182681	Homo sapiens amelogenin (amelogenesis imperfecta 1, X-linked) (AMELX),
NM_182682	Homo sapiens ubiquitin-conjugating enzyme E2G 1 (UBC7 homolog, C. eleg
NM_182683	Homo sapiens uroplakin 3B (UPK3B), transcript variant 3, mRNA
NM_182684	Homo sapiens uroplakin 3B (UPK3B), transcript variant 2, mRNA
NM_182685	Homo sapiens ephrin-A1 (EFNA1), transcript variant 2, mRNA
NM_182686	Homo sapiens polycystic kidney disease 1-like (PKD1-like), transcript variant
NM_182687	Homo sapiens membrane-associated tyrosine- and threonine-specific cdc2-ii
NM_182688	Homo sapiens ubiquitin-conjugating enzyme E2G 2 (UBC7 homolog, yeast) (
NM_182689	Homo sapiens ephrin-A4 (EFNA4), transcript variant 2, mRNA
NM_182690	Homo sapiens ephrin-A4 (EFNA4), transcript variant 3, mRNA

NM 182691	Homo sapiens SFRS protein kinase 2 (SRPK2), transcript variant 2, mRNA
NM_182692	Homo sapiens SFRS protein kinase 2 (SRPK2), transcript variant 1, mRNA
NM 182697	Homo sapiens ubiquitin-conjugating enzyme E2H (UBC8 homolog, yeast) (U
NM 182699	Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 53 (DDX53), mRNA
NM_182700	Homo sapiens Sp8 transcription factor (SP8), transcript variant 1, mRNA
NM_182701	Home sanione digitathians perceidens 6 (alfastant) (ODYS) and DAS
	Homo sapiens glutathione peroxidase 6 (olfactory) (GPX6), mRNA
NM_182702	Homo sapiens testis serine protease 2 (TESSP2), mRNA
NM_182703	Homo sapiens hypothetical protein LOC348094 (LOC348094), mRNA
NM_182704	Homo sapiens selenoprotein V (SELV), mRNA
NM_182705	Homo sapiens hypothetical protein MGC45871 (MGC45871), mRNA
NM_182706	Homo sapiens scribbled homolog (Drosophila) (SCRIB), transcript variant 1,
NM_182709	Homo sapiens HIV-1 Tat interacting protein, 60kDa (HTATIP), transcript varia
NM_182710	Homo sapiens HIV-1 Tat interacting protein, 60kDa (HTATIP), transcript varia
NM_182712	Homo sapiens eukaryotic translation initiation factor 3, subunit 9 eta, 116kDa
NM_182715	Homo sapiens synaptophysin-like protein (SYPL), transcript variant 2, mRNA
NM_182717	Homo saplens cAMP responsive element modulator (CREM), transcript varia
NM_182718	Homo sapiens cAMP responsive element modulator (CREM), transcript varia
NM 182719	Homo sapiens cAMP responsive element modulator (CREM), transcript varia
NM_182720	Homo sapiens cAMP responsive element modulator (CREM), transcript varia
NM 182721	Homo sapiens cAMP responsive element modulator (CREM), transcript varia
NM_182722	Homo sapiens cAMP responsive element modulator (CREM), transcript varia
NM_182723	Homo sapiens cAMP responsive element modulator (CREM), transcript varia
NM 182724	Homo sapiens cAMP responsive element modulator (CREM), transcript varia
NM_182725	Homo sapiens cAMP responsive element modulator (CREM), transcript varia
NM 182728	Homo sapiens solute carrier family 7 (cationic amino acid transporter, y+ sys
NM_182729	Homo sapiens thiorodovin reductors 1 (TVNDD1), transcript content 5 DN1
NM_182734	Homo sapiens thioredoxin reductase 1 (TXNRD1), transcript variant 5, mRN/
NM_182739	Homo sapiens phospholipase C, beta 1 (phosphoinositide-specific) (PLCB1).
	Homo sapiens NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 6, 17
NM_182740	Homo sapiens polycystic kidney disease 1-like 2 (PKD1L2), transcript variant
NM_182741	Homo sapiens mucin 1, transmembrane (MUC1), mRNA
NM_182742	Homo sapiens thioredoxin reductase 1 (TXNRD1), transcript variant 2, mRN/
NM_182743	Homo sapiens thioredoxin reductase 1 (TXNRD1), transcript variant 4, mRN/
NM_182744	Homo sapiens neuroblastoma, suppression of tumorigenicity 1 (NBL1), trans
NM_182746	Homo sapiens MCM4 minichromosome maintenance deficient 4 (S. cerevisia
NM_182749	Homo sapiens chromosome 21 open reading frame 127 (C21orf127), transci
NM_182751	Homo sapiens MCM10 minichromosome maintenance deficient 10 (S. cerevi
NM_182752	Homo sapiens hypothetical protein LOC127262 (LOC127262), mRNA
NM_182755	Homo sapiens hypothetical protein LOC220929 (LOC220929), mRNA
NM_182756	Homo sapiens speedy homolog 1 (Drosophila) (SPDY1), mRNA
NM_182757	Homo sapiens IBR domain containing 2 (IBRDC2), mRNA
NM_182758	Homo sapiens hypothetical protein FLJ38736 (FLJ38736), mRNA
NM_182759	Homo sapiens TAFA3 protein (TAFA3), mRNA
NM_182760	Homo sapiens sulfatase modifying factor 1 (SUMF1), mRNA
NM_ 1 82761	Homo sapiens hypothetical protein LOC340069 (LOC340069), mRNA
NM_182762	Homo sapiens putative binding protein 7a5 (7A5), mRNA
NM_182763	Homo sapiens myeloid cell leukemia sequence 1 (BCL2-related) (MCL1), tra
NM_182764	Homo sapiens engulfment and cell motility 2 (ced-12 homolog, C. elegans) (I
NM_182765	Homo sapiens HECT domain containing 2 (HECTD2), transcript variant 1, ml
NM_182766	Homo sapiens hypothetical protein FLJ32940 (DKFZp686H1423), transcript
NM_182767	Homo sapiens solute carrier family 6 (neurotransmitter transporter), member
NM_182769	Homo sapiens cAMP responsive element modulator (CREM), transcript varia
NM_182770	Homo sapiens cAMP responsive element modulator (CREM), transcript varia
NM_182771	Homo sapiens cAMP responsive element modulator (CREM), transcript varia
NM_182772	Homo sapiens cAMP responsive element modulator (CREM), transcript varia
NM_182774	Homo sapiens hypothetical protein LOC259173 (FLJ36525), transcript variar
NM 182775	Homo sapiens hypothetical protein LOC259173 (FLJ36525), transcript variar
NM_182776	Homo sapiens MCM7 minichromosome maintenance deficient 7 (S. cerevisia
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NM_182777	Homo sapiens ribosomal protein S3A (RPS3A), mRNA
NM_182779	Homo sapiens dishevelled, dsh homolog 1 (Drosophila) (DVL1), mRNA
NM_182789	Homo sapiens poly(A) binding protein interacting protein 1 (PAIP1), transcrip
NM_182790	Homo sapiens pre-B-cell colony enhancing factor 1 (PBEF1), transcript varia
NM_182791	Homo sapiens hypothetical protein FLJ32855 (FLJ32855), mRNA
NM_182792	Homo sapiens thymosin-like 1 (TMSL1), mRNA
NM_182793	Homo sapiens thymosin-like 2 (TMSL2), mRNA
NM_182794	Homo sapiens thymosin-like 4 (TMSL4), mRNA
NM_182795	Homo sapiens nucleophosmin/nucleoplasmin, 2 (NPM2), mRNA
NM_182796	Homo sapiens methionine adenosyltransferase II, beta (MAT2B), transcript v
NM_182797	Homo sapiens phospholipase C, beta 4 (PLCB4), transcript variant 2, mRNA
NM_182798	Homo sapiens hypothetical protein FLJ39155 (FLJ39155), transcript variant :
NM_182799	Homo sapiens hypothetical protein FLJ39155 (FLJ39155), transcript variant :
NM_182800	Homo sapiens arsenate resistance protein ARS2 (ARS2), transcript variant 2
NM_182801	Homo sapiens hypothetical protein FLJ39155 (FLJ39155), transcript variant
NM_182802	Homo sapiens MCM8 minichromosome maintenance deficient 8 (S. cerevisia
NM_182804	Homo sapiens apolipoprotein B48 receptor (APOB48R), mRNA
NM_182810	Homo sapiens activating transcription factor 4 (tax-responsive enhancer elen
NM_182811	Homo sapiens phospholipase C, gamma 1 (PLCG1), transcript variant 2, mR
NM_182812	Homo sapiens splicing factor 4 (SF4), transcript variant c, mRNA
NM_182826	Homo sapiens scavenger receptor class A, member 3 (SCARA3), transcript v
NM_182827	Homo sapiens FK506 binding protein 9-like (FKBP9L), mRNA
NM_182828	Homo sapiens growth differentiation factor 7 (GDF7), mRNA
NM_182829	Homo sapiens hypothetical protein LOC158160 (LOC158160), mRNA
NM_182830	Homo saplens MAM domain containing 1 (MAMDC1), mRNA
NM_182831	Homo sapiens TNT protein (TNT), mRNA
NM_182832	Homo sapiens placenta-specific 4 (PLAC4), mRNA
NM_182833	Homo sapiens GDPD domain containing protein (LOC220032), mRNA
NM_182835	Homo sapiens sec1 family domain containing 1 (SCFD1), transcript variant 2
NM_182836	Homo sapiens Rab geranylgeranyltransferase, alpha subunit (RABGGTA), tr
NM_182838	Homo sapiens solute carrier family 35, member E2 (SLC35E2), mRNA
NM_182847	Homo sapiens amiloride-sensitive cation channel 4, pituitary (ACCN4), transc
NM_182848	Homo sapiens claudin 10 (CLDN10), transcript variant 1, mRNA
NM_182849	Homo sapiens cyclin B1 interacting protein 1 (CCNB1IP1), transcript variant:
NM_182850	Homo sapiens cAMP responsive element modulator (CREM), transcript varia
NM_182851	Homo sapiens cyclin B1 interacting protein 1 (CCNB1IP1), transcript variant
NM_182852	Homo sapiens cyclin B1 interacting protein 1 (CCNB1IP1), transcript variant
NM_182853	Homo sapiens cAMP responsive element modulator (CREM), transcript varia
NM_182854	Homo sapiens selectin ligand interactor cytoplasmic-1 (SLIC1), mRNA
NM_182894	Homo sapiens ceh-10 homeo domain containing homolog (C. elegans) (CHX
NM_182895 NM_182896	Homo sapiens scavenger receptor class F, member 2 (SCARF2), transcript \ Homo sapiens hypothetical protein DKFZp761H079 (DKFZp761H079), transcript
NM_182898	Homo sapiens cAMP responsive element binding protein 5 (CREB5), mRNA
NM_182899	Homo sapiens cAMP responsive element binding protein 5 (CREB5), mRNA
NM 182901	Homo sapiens chromosome 11 open reading frame 17 (C11orf17), transcript
NM_182902	Homo sapiens kinesin family member 9 (KIF9), mRNA
NM_182903	Homo sapiens kinesin family member 9 (KIF9), mRNA
NM_182904	Homo sapiens procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-l
NM_182905	Homo sapiens CXYorf1-related protein (DKFZp434K1323), mRNA
NM_182906	Homo sapiens C-type (calcium dependent, carbohydrate-recognition domain
NM 182907	Homo sapiens PR domain containing 1, with ZNF domain (PRDM1), transcrip
NM_182908	Homo sapiens dehydrogenase/reductase (SDR family) member 2 (DHRS2),
NM_182909	Homo sapiens downregulated in ovarian cancer 1 (DOC1), transcript variant
NM_182910	Homo sapiens spectrin repeat containing, nuclear envelope 2 (SYNE2), trans
NM_182911	Homo sapiens testis specific, 10 (TSGA10), mRNA
NM_182912	Homo sapiens spectrin repeat containing, nuclear envelope 2 (SYNE2), trans
NM_182913	Homo sapiens spectrin repeat containing, nuclear envelope 2 (SYNE2), trans
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NM_182914	Homo sapiens spectrin repeat containing, nuclear envelope 2 (SYNE2), trans
NM_182915	Homo sapiens dudulin 2 (TSAP6), mRNA
NM_182916	Homo sapiens tRNA nucleotidyl transferase, CCA-adding, 1 (TRNT1), mRNA
NM 182917	Homo sapiens eukaryotic translation initiation factor 4 gamma, 1 (EIF4G1), ti
NM_182918	Homo sapiens v-ets erythroblastosis virus E26 oncogene like (avian) (ERG),
NM_182919	Homo sapiens TIR domain containing adaptor inducing interferon-beta (TRIF
NM_182920	Homo sapiens a disintegrin-like and metalloprotease (reprolysin type) with th
NM_182921	Homo sapiens a disintegrin-like and metalloprotease (reprolysin type) with th
NM_182922	Homo sapiens hypothetical protein FLJ20718 (FLJ20718), mRNA
NM_182923	Homo sapiens kinesin 2 60/70kDa (KNS2), mRNA
NM_182924	Homo sapiens MICAL-like 2 (FLJ23471), transcript variant 1, mRNA
NM_182925	Homo sapiens fms-related tyrosine kinase 4 (FLT4), transcript variant 1, mRI
NM_182926	Homo sapiens kinectin 1 (kinesin receptor) (KTN1), mRNA
NM_182931	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia 5 (trithorax homo
NM_182932	Homo sapiens solute carrier family 8 (sodium-calcium exchanger), member 3
NM_182933	Homo sapiens solute carrier family 8 (sodium-calcium exchanger), member 3
NM_182934	Homo sapiens myelin-associated oligodendrocyte basic protein (MOBP), mR
NM_182935	Homo sapiens myelin-associated oligodendrocyte basic protein (MOBP), mR
NM_182936	Homo sapiens solute carrier family 8 (sodium-calcium exchanger), member 3
NM_182943	Homo sapiens procollagen-lysine, 2-oxoglutarate 5-dioxygenase (lysine hydr
NM_182944	Homo sapiens ninein (GSK3B interacting protein) (NIN), transcript variant 1,
NM_182945	Homo sapiens ninein (GSK3B interacting protein) (NIN), transcript variant 3,
NM_182946	Homo sapiens ninein (GSK3B interacting protein) (NIN), transcript variant 5,
NM_182947	Homo sapiens RAC/CDC42 exchange factor (GEFT), transcript variant 1, mF
NM_182948	Homo sapiens protein kinase, cAMP-dependent, catalytic, beta (PRKACB), to
NM_182960	Homo sapiens hypothetical protein MGC21644 (MGC21644), transcript varia
NM_182961	Homo sapiens spectrin repeat containing, nuclear envelope 1 (SYNE1), trans- Homo sapiens baculoviral IAP repeat-containing 3 (BIRC3), transcript variant
NM_182962	Homo sapiens neuron navigator 2 (NAV2), transcript variant 1, mRNA
NM_182964	Homo sapiens sphingosine kinase 1 (SPHK1), mRNA
NM_182965	Homo sapiens neural precursor cell expressed, developmentally down-regula
NM_182966	Homo sapiens regulating synaptic membrane exocytosis 4 (RIMS4), mRNA
NM_182970	Homo sapiens cytochrome c oxidase subunit 8C (COX8C), mRNA
NM_182971	Homo sapiens interferon regulatory factor 2 binding protein 2 (IRF2BP2), mR
NM_182972 NM_182973	Homo sapiens transmembrane serine protease 9 (TMPRSS9), mRNA
NM_182974	Homo sapiens galactosyltransferase family 6 domain containing 1 (GLTDC1)
NM_182975	Homo sapiens hypothetical protein FLJ20403 (FLJ20403), transcript variant
NM 182976	Homo sapiens hypothetical protein FLJ20403 (FLJ20403), transcript variant
NM_182977	Homo sapiens nicotinamide nucleotide transhydrogenase (NNT), mRNA
NM 182978	Homo sapiens guanine nucleotide binding protein (G protein), alpha activatin
NM 182980	Homo sapiens pregnancy-induced growth inhibitor (OKL38), mRNA
NM 182981	Homo sapiens pregnancy-induced growth inhibitor (OKL38), mRNA
NM_182982	Homo sapiens G protein-coupled receptor kinase 4 (GRK4), transcript varian
NM_182983	Homo sapiens hepsin (transmembrane protease, serine 1) (HPN), transcript
NM_182984	Homo sapiens Hpall tiny fragments locus 9C (HTF9C), transcript variant 1, r
NM 182985	Homo sapiens ring finger protein 36 (RNF36), transcript variant a, mRNA
NM_183001	Homo sapiens SHC (Src homology 2 domain containing) transforming protein
NM_183002	Homo sapiens solute carrier family 8 (sodium-calcium exchanger), member 3
NM_183003	Homo sapiens cytochrome c oxidase subunit VIIa polypeptide 3 (IIVer) (COX)
NM_183004	Homo sapiens eukarvotic translation initiation factor 5 (EIF5), transcript varia
NM_183005	Homo sapiens ribonuclease P/MRP 38kDa subunit (RPP38), transcript variat
NM_183006	Homo sapiens discs, large (Drosophila) homolog-associated protein 4 (DLG/
NM_183008	
NM_183009	
NM_183010	
NM_183011	
NM_183012	Homo sapiens cAMP responsive element modulator (CREM), transcript varia

NM_183013	Homo sapiens cAMP responsive element modulator (CREM), transcript varia
NM_183040	Homo sapiens dystrobrevin binding protein 1 (DTNBP1), transcript variant 2,
NM_183041	Homo sapiens dystrobrevin binding protein 1 (DTNBP1), transcript variant 3,
NM_183043	Homo sapiens ring finger protein (C3H2C3 type) 6 (RNF6), transcript variant
NM_183044	Homo sapiens ring finger protein (C3H2C3 type) 6 (RNF6), transcript variant
NM_183045	Homo sapiens ring finger protein (C3H2C3 type) 6 (RNF6), transcript variant
NM_183047	Homo sapiens protein kinase C binding protein 1 (PRKCBP1), transcript varie
NM_183048	Homo sapiens protein kinase C binding protein 1 (PRKCBP1), transcript varia
NM_183049	Homo sapiens thymosin-like 3 (TMSL3), mRNA
NM_183050	Homo sapiens branched chain keto acid dehydrogenase E1, beta polypeptid
NM_183057	Homo sapiens vacuolar protein sorting 28 (yeast) (VPS28), transcript variant
	
NM_183058	Homo sapiens lysozyme-like 2 (LYZL2), mRNA Homo sapiens chromosome 1 open reading frame 36 (C1orf36), mRNA
NM_183059	
NM_183060	Homo sapiens cAMP responsive element modulator (CREM), transcript varia
NM_183062	Homo sapiens marapsin 2 (MPN2), mRNA
NM_183063	Homo sapiens ring finger protein 7 (RNF7), transcript variant 2, mRNA
NM_183065	Homo sapiens hypothetical protein MGC10744 (MGC10744), transcript varia
NM_183075	Homo sapiens cytochrome P450, family 2, subfamily U, polypeptide 1 (CYP2
NM_183078	Homo sapiens ring finger protein (C3HC4 type) 8 (RNF8), transcript variant 2
NM_183079	Homo sapiens prion protein (p27-30) (Creutzfeld-Jakob disease, Gerstmann-
NM_183227	Homo sapiens RAB23, member RAS oncogene family (RAB23), transcript ve
NM_183228	Homo sapiens zinc finger protein, subfamily 1A, 3 (Aiolos) (ZNFN1A3), trans-
NM_183229	Homo sapiens zinc finger protein, subfamily 1A, 3 (Aiolos) (ZNFN1A3), trans-
NM_183230	Homo sapiens zinc finger protein, subfamily 1A, 3 (Aiolos) (ZNFN1A3), trans-
NM_183231	Homo sapiens zinc finger protein, subfamily 1A, 3 (Aiolos) (ZNFN1A3), trans-
NM_183232	Homo sapiens zinc finger protein, subfamily 1A, 3 (Aiolos) (ZNFN1A3), trans-
NM_183233	Homo sapiens solute carrier family 22 (organic cation transporter), member 1
NM_183234	Homo sapiens RAB27A, member RAS oncogene family (RAB27A), transcript
NM 183235	Homo sapiens RAB27A, member RAS oncogene family (RAB27A), transcript
NM_183236	Homo sapiens RAB27A, member RAS oncogene family (RAB27A), transcript
NM 183237	Homo sapiens ring finger protein 7 (RNF7), transcript variant 3, mRNA
NM_183238	Homo sapiens zinc finger protein 605 (ZNF605), mRNA
NM 183239	Homo sapiens glutathione S-transferase omega 2 (GSTO2), mRNA
NM 183240	Homo sapiens voltage-dependent calcium channel gamma subunit-like prote
NM_183241	Homo sapiens hypothetical protein LOC286257 (LOC286257), mRNA
NM_183242	Homo sapiens BTB (POZ) domain containing 8 (BTBD8), mRNA
NM_183243	Homo sapiens IMP (inosine monophosphate) dehydrogenase 1 (IMPDH1), tr
NM_183244	Homo sapiens phosphatase and actin regulator 3 (PHACTR3), transcript vari
NM_183245	Homo sapiens inversin (INVS), transcript variant 2, mRNA
NM 183246	Homo sapiens phosphatase and actin regulator 3 (PHACTR3), transcript vari
NM_183247	Homo sapiens transmembrane protease, serine 4 (TMPRSS4), transcript var
NM_183323	Homo sapiens poly(A) binding protein interacting protein 1 (PAIP1), transcrip
NM_183337	Homo sapiens regulator of G-protein signalling 11 (RGS11), transcript varian
NM 183352	Homo sapiens SEC13-like 1 (S. cerevisiae) (SEC13L1), transcript variant 2, I
NM_183353	Homo sapiens ring finger protein 12 (RNF12), transcript variant 2, mRNA
NM 183356	Homo sapiens asparagine synthetase (ASNS), transcript variant 3, mRNA
NM 183357	Homo sapiens adenylate cyclase 5 (ADCY5), mRNA
NM_183359	Homo sapiens bromodomain containing 8 (BRD8), transcript variant 3, mRN/
	Homo sapiens dystrobrevin, beta (DTNB), transcript variant 4, mRNA
NM_183360	Homo sapiens dystrobrevin, beta (DTNB), transcript variant 4, mRNA Homo sapiens dystrobrevin, beta (DTNB), transcript variant 5, mRNA
NM_183361 NM_183372	Homo sapiens hypothetical protein LOC200030 (LOC200030), mRNA
	Homo sapiens chromosome 6 open reading frame 145 (C6orf145), mRNA
NM_183373	Homo sapiens cytochrome P450, family 26, subfamily C, polypeptide 1 (CYP
NM_183374	
NM_183375	Homo sapiens epidermis-specific serine protease-like protein (ESSPL), mRN
NM_183376	Homo sapiens arrestin domain containing 4 (ARRDC4), mRNA Homo sapiens amiloride-sensitive cation channel 1, neuronal (degenerin) (A
NM_183377	Homo sapiens ovochymase 1 (OVCH1), mRNA
NM_183378	Tiomo sapiens ovochymase i (OVOFI), micha

NM_183379	Homo sapiens testis serine protease 1 (TESSP1), mRNA
NM_183380	Homo sapiens dystonin (DST), transcript variant 1, mRNA
NM_183381	Homo sapiens ring finger protein 13 (RNF13), transcript variant 4, mRNA
NM_183382	Homo sapiens ring finger protein 13 (RNF13), transcript variant 2, mRNA
NM_183383	Homo sapiens ring finger protein 13 (RNF13), transcript variant 3, mRNA
NM_183384	Homo sapiens ring finger protein 13 (RNF13), transcript variant 5, mRNA
NM_183385	Homo sapiens peroxisomal acyl-CoA thioesterase (PTE1), transcript variant
NM 183386	Homo sapiens peroxisomal acyl-CoA thioesterase (PTE1), transcript variant
NM_183387	Homo sapiens echinoderm microtubule associated protein like 5 (EML5), mR
NM 183393	Homo sapiens Ca2+-dependent secretion activator (CADPS), transcript varia
NM_183394	Homo sapiens Ca2+-dependent secretion activator (CADPS), transcript varia
NM_183395	Homo sapiens cold autoinflammatory syndrome 1 (CIAS1), transcript variant
NM 183397	Homo sapiens peroxisomal membrane protein 4, 24kDa (PXMP4), transcript
NM_183398	Homo sapiens ring finger protein 14 (RNF14), transcript variant 2, mRNA
NM_183399	Homo sapiens ring finger protein 14 (RNF14), transcript variant 3, mRNA
NM_183400	Homo sapiens ring finger protein 14 (RNF14), transcript variant 4, mRNA
NM 183401	Homo sapiens ring finger protein 14 (RNF14), transcript variant 5, mRNA
NM_183404	Homo sapiens retinoblastoma-like 1 (p107) (RBL1), transcript variant 2, mRN
NM_183412	Homo sapiens F-box protein 44 (FBXO44), transcript variant 2, mRNA
NM 183413	Homo sapiens F-box protein 44 (FBXO44), transcript variant 3, mRNA
NM_183414	Homo saplens ubiquitin protein ligase E3B (UBE3B), transcript variant 2, mR
NM 183415	Homo sapiens ubiquitin protein ligase E3B (UBE3B), transcript variant 3, mR
NM_183416	Homo sapiens kinesin family member 1B (KIF1B), transcript variant 2, mRN/
NM_183418	Homo sapiens molybdenum cofactor synthesis 2 (MOCS2), transcript variant
NM_183419	Homo sapiens ring finger protein 19 (RNF19), transcript variant 1, mRNA
NM_183420	Homo sapiens F-box protein 25 (FBXO25), transcript variant 2, mRNA
NM_183421	Homo sapiens F-box protein 25 (FBXO25), transcript variant 1, mRNA
NM_183422	Homo sapiens transforming growth factor beta 1 induced transcript 4 (TGFB'
NM_183425	Homo sapiens RNA-binding region (RNP1, RRM) containing 1 (RNPC1), trar
NM_184041	Homo saplens aldolase A, fructose-bisphosphate (ALDOA), transcript variant
NM_184042	Homo sapiens Cohen syndrome 1 (COH1), transcript variant 2, mRNA
NM_184043	Homo sapiens aldolase A, fructose-bisphosphate (ALDOA), transcript variant
NM_184085	Homo sapiens ring finger protein 29 (RNF29), transcript variant 1, mRNA
NM_184086	Homo sapiens ring finger protein 29 (RNF29), transcript variant 3, mRNA
NM_184087	Homo sapiens ring finger protein 29 (RNF29), transcript variant 4, mRNA
NM_184231	Homo sapiens NCK interacting protein with SH3 domain (NCKIPSD), transcr
NM_184234	Homo sapiens RNA-binding region (RNP1, RRM) containing 2 (RNPC2), trar
NM_184237	Homo sapiens RNA-binding region (RNP1, RRM) containing 2 (RNPC2), trar
NM_184241	Homo sapiens RNA-binding region (RNP1, RRM) containing 2 (RNPC2), trar
NM_184244	Homo sapiens RNA-binding region (RNP1, RRM) containing 2 (RNPC2), trar
NM_187841	Homo sapiens ring finger protein 30 (RNF30), transcript variant 2, mRNA
NM_194071	Homo sapiens cAMP responsive element binding protein 3-like 2 (CREB3L2)
NM_194072	Homo sapiens spermatid-specific linker histone H1-like protein (HILS1), mR1
NM_194247	Homo sapiens heterogeneous nuclear ribonucleoprotein A3 (HNRPA3), mRN
NM_194248	Homo sapiens otoferlin (OTOF), transcript variant 1, mRNA
NM_194249	Homo sapiens dead end homolog 1 (zebrafish) (DND1), mRNA
NM_194250	Homo sapiens similar to C630007C17Rik protein (LOC91752), mRNA
NM_194251	Homo sapiens G protein-coupled receptor 151 (GPR151), mRNA
NM_194252	Homo sapiens chromosome 9 open reading frame 20 (C9orf20), mRNA
NM_194255	Homo sapiens solute carrier family 19 (folate transporter), member 1 (SLC19
NM_194259	Homo sapiens ubiquitin-conjugating enzyme E2I (UBC9 homolog, yeast) (UE
NM_194260	Homo sapiens ubiquitin-conjugating enzyme E2I (UBC9 homolog, yeast) (UE
NM_194261	Homo sapiens ubiquitin-conjugating enzyme E2I (UBC9 homolog, yeast) (UE
NM_194270	Homo sapiens protein containing single MORN motif in testis (MOPT), mRN/
NM_194271	Homo sapiens ring finger protein 34 (RNF34), transcript variant 1, mRNA
NM_194276	Homo sapiens hypothetical protein FLJ20209 (FLJ20209), mRNA
NM_194277	Homo sapiens hypothetical protein LOC90167 (LOC90167), mRNA

NM_194278	Homo sapiens chromosome 14 open reading frame 43 (C14orf43), mRNA
NM_194279	Homo sapiens HESB like domain containing 1 (HBLD1), mRNA
NM 194281	Homo sapiens chromosome 18 open reading frame 37 (C18orf37), mRNA
NM_194282	Homo sapiens hypothetical protein DKFZp686L1814 (DKFZp686L1814), mR
NM_194283	Homo sapiens hypothetical protein LOC134218 (LOC134218), mRNA
NM_194284	Homo sapiens claudin 23 (CLDN23), mRNA
NM 194285	Homo sapiens hypothetical protein FLJ39441 (FLJ39441), mRNA
NM_194286	Homo sapiens KIAA1853 protein (KIAA1853), mRNA
NM_194287	Homo sapiens chromosome 14 open reading frame 166B (C14orf166B), mR
NM 194288	Homo sapiens hypothetical protein LOC146712 (LOC146712), mRNA
NM_194289	Homo sapiens hypothetical protein LOC152195 (LOC152195), mRNA
NM 194290	Homo sapiens hypothetical protein LOC153684 (LOC153684), mRNA
NM_194291	Homo sapiens hypothetical protein BC017881 (LOC157378), mRNA
NM 194292	Homo sapiens hypothetical protein DKFZp761A078 (DKFZp761A078), mRN
NM_194293	Homo sapiens cardiomyopathy associated 1 (CMYA1), mRNA
NM_194294	Homo sapiens hypothetical protein LOC169355 (LOC169355), mRNA
NM_194295	Homo sapiens hypothetical protein DKFZp434I1020 (DKFZp434I1020), mRN
NM 194298	Homo sapiens solute carrier family 16 (monocarboxylic acid transporters), monocarboxylic acid transporters
NM_194299	Homo sapiens hypothetical protein LOC221711 (LOC221711), mRNA
NM_194300	Homo sapiens hypothetical protein LOC223075 (LOC223075), mRNA
NM_194302	Homo sapiens hypothetical protein DKFZp434O0527 (DKFZp434O0527), mf
NM_194303	Homo sapiens chromosome 10 open reading frame 39 (C10orf39), mRNA
NM_194309	Homo sapiens chromosome 21 open reading frame 125 (C21orf125), mRNA
NM_194310	Homo sapiens hypothetical protein LOC284837 (LOC284837), mRNA
NM_194312	Homo sapiens hypothetical protein LOC339768 (LOC339768), mRNA
NM_194313	Homo sapiens chromosome 9 open reading frame 48 (C9orf48), mRNA
NM_194314	Homo sapiens FRBZ1 protein (FRBZ1), mRNA
NM_194315	Homo saplens ubiquitin-conjugating enzyme E2, J2 (UBC6 homolog, yeast) (
NM_194316	Homo sapiens ubiquitin-conjugating enzyme E2, J2 (UBC6 homolog, yeast) (
NM_194317	Homo sapiens hypothetical protein MGC52057 (MGC52057), mRNA
NM_194318	Homo sapiens beta 3-glycosyltransferase-like (B3GTL), mRNA
NM_194319	Homo sapiens zinc finger protein 542 (ZNF542), mRNA
NM_194320	Homo sapiens zinc finger protein 169 (ZNF169), mRNA
NM_194322	Homo sapiens otoferlin (OTOF), transcript variant 3, mRNA
NM_194323	Homo sapiens otoferlin (OTOF), transcript variant 4, mRNA
NM_194324	Homo sapiens hypothetical protein MGC39900 (MGC39900), mRNA
NM_194325	Homo sapiens zinc finger protein 30 (KOX 28) (ZNF30), mRNA
NM_194326	Homo sapiens hypothetical protein MGC52010 (MGC52010), mRNA
NM_194327	Homo sapiens galectin-3 internal gene (GALIG), mRNA
NM_194328	Homo sapiens ring finger protein 38 (RNF38), transcript variant 2, mRNA
NM_194329	Homo sapiens ring finger protein 38 (RNF38), transcript variant 3, mRNA
NM_194330	Homo sapiens ring finger protein 38 (RNF38), transcript variant 5, mRNA
NM_194331	Homo sapiens ring finger protein 38 (RNF38), transcript variant 4, mRNA
NM_194332	Homo sapiens ring finger protein 38 (RNF38), transcript variant 6, mRNA
NM_194352	Homo sapiens ring finger protein 40 (RNF40), transcript variant 2, mRNA
NM_194356	Homo sapiens epimorphin (EPIM), transcript variant 2, mRNA
NM_194358	Homo sapiens ring finger protein 41 (RNF41), transcript variant 2, mRNA
NM_194359	Homo sapiens ring finger protein 41 (RNF41), transcript variant 3, mRNA
NM_194428	Homo sapiens DEAH (Asp-Glu-Ala-His) box polypeptide 34 (DHX34), transcr
NM_194429	Homo sapiens FGFR1 oncogene partner (FGFR1OP), transcript variant 2, m
NM_194430	Homo sapiens ribonuclease, RNase A family, 4 (RNASE4), transcript variant Homo sapiens ribonuclease, RNase A family, 4 (RNASE4), transcript variant
NM_194431	Homo sapiens VAMP (vesicle-associated membrane protein)-associated pro
NM_194434	Homo sapiens vasoactive intestinal peptide (VIP), transcript variant 2, mRNA
NM_194435	Homo sapiens vasoactive intestinal peptide (VIF), transcript variant 2, mixtorial behavior of the control of th
NM_194436	Homo sapiens hypothetical protein LOC285498 (LOC285498), mRNA
NM_194439	Homo sapiens butyrophilin, subfamily 3, member A1 (BTN3A1), transcript va
NM_194441	TOTAL Supremo busy opining substantily of mornost Fit (5 110.11), wanted by 12

NM_194442	Homo sapiens lamin B receptor (LBR), transcript variant 2, mRNA
NM_194447	Homo sapiens C-type (calcium dependent, carbohydrate-recognition domain
NM_194448	Homo sapiens C-type (calcium dependent, carbohydrate-recognition domain
NM_194449	Homo sapiens pleckstrin homology domain containing, family E (with leucine
NM_194450	Homo sapiens C-type (calcium dependent, carbohydrate-recognition domain
NM_194451	Homo sapiens lipoic acid synthetase (LIAS), nuclear gene encoding mitocho
NM_194452	Homo sapiens ring finger protein 121 (RNF121), transcript variant 2, mRNA
NM_194453	Homo sapiens ring finger protein 121 (RNF121), transcript variant 3, mRNA
NM_194454	Homo sapiens cerebral cavernous malformations 1 (CCM1), transcript varian
NM_194455	Homo sapiens cerebral cavernous malformations 1 (CCM1), transcript varian
NM_194456	Homo sapiens cerebral cavernous malformations 1 (CCM1), transcript varian
NM 194457	Homo sapiens ubiquitin-conjugating enzyme E2, J2 (UBC6 homolog, yeast) (
NM 194458	Homo sapiens ubiquitin-conjugating enzyme E2, J2 (UBC6 homolog, yeast) (
NM 194460	Homo sapiens ring finger protein 126 (RNF126), transcript variant 2, mRNA
NM_194463	Homo sapiens ring finger protein 128 (RNF128), transcript variant 1, mRNA
NM 197939	Homo sapiens ring finger protein 135 (RNF135), transcript variant 2, mRNA
NM 197941	Homo sapiens similar to ADAMTS-10 precursor (A disintegrin and metallopro
NM_197947	Homo sapiens C-type (calcium dependent, carbohydrate-recognition domain
NM_197948	Homo sapiens C-type (calcium dependent, carbohydrate-recognition domain
NM 197949	Homo sapiens C-type (calcium dependent, carbohydrate-recognition domain
NM_197950	Homo sapiens C-type (calcium dependent, carbohydrate-recognition domain
NM_197951	Homo sapiens C-type (calcium dependent, carbohydrate-recognition domain
NM 197952	Homo sapiens C-type (calcium dependent, carbohydrate-recognition domain
NM_197953	Homo sapiens C-type (calcium dependent, carbohydrate-recognition domain
NM 197954	Homo sapiens C-type (calcium dependent, carbohydrate-recognition domain
NM 197955	Homo sapiens normal mucosa of esophagus specific 1 (NMES1), transcript v
NM 197956	Homo sapiens chromosome 9 open reading frame 90 (C9orf90), mRNA
NM_197957	Homo sapiens MAX protein (MAX), transcript variant 6, mRNA
NM_197958	Homo sapiens acheron (FLJ11196), transcript variant 2, mRNA
NM 197960	Homo sapiens dipeptidylpeptidase 8 (DPP8), transcript variant 2, mRNA
NM_197961	Homo sapiens dipeptidylpeptidase 8 (DPP8), transcript variant 4, mRNA
NM_197962	Homo sapiens glutaredoxin 2 (GLRX2), transcript variant 2, mRNA
NM_197964	Homo sapiens hypothetical protein HSPC268 (HSPC268), mRNA
NM 197965	Homo sapiens sodium-dependent organic anion transporter (SOAT), mRNA
NM 197966	Homo sapiens BH3 interacting domain death agonist (BID), transcript variant
NM_197967	Homo sapiens BH3 interacting domain death agonist (BID), transcript variant
NM_197968	Homo sapiens zinc finger protein 198 (ZNF198), mRNA
NM 197970	Homo sapiens bol, boule-like (Drosophila) (BOLL), transcript variant 1, mRN
NM 197972	Homo sapiens non-metastatic cells 7, protein expressed in (nucleoside-dipho
_	
NM_197973	Homo sapiens asparagine-linked glycosylation 2 homolog (yeast, alpha-1,3-r
NM_197974 NM_197975	Homo sapiens butyrophilin, subfamily 3, member A3 (BTN3A3), transcript va Homo sapiens butyrophilin-like 3 (BTNL3), transcript variant 1, mRNA
	Homo sapiens PBX/knotted 1 homeobox 1 (PKNOX1), transcript variant 2, m
NM_197976	Homo sapiens zinc finger protein 189 (ZNF189), mRNA
NM_197977	
NM_197978	Homo sapiens hemogen (HEMGN), transcript variant 2, mRNA
NM_198038	Homo sapiens nudix (nucleoside diphosphate linked moiety X)-type motif 9 (I Homo sapiens nudix (nucleoside diphosphate linked moiety X)-type motif 9 (I
NM_198039	
NM_198040	Homo sapiens polyhomeotic-like 2 (Drosophila) (PHC2), transcript variant 1,
NM_198041	Homo sapiens nudix (nucleoside diphosphate linked moiety X)-type motif 6 (I
NM_198042	Homo sapiens PDZ and LIM domain 2 (mystique) (PDLIM2), transcript variar
NM_198043	Homo sapiens zinc finger, DHHC domain containing 16 (ZDHHC16), transcri
NM_198044	Homo sapiens zinc finger, DHHC domain containing 16 (ZDHHC16), transcri
NM_198045	Homo sapiens zinc finger, DHHC domain containing 16 (ZDHHC16), transcri
NM_198046	Homo sapiens zinc finger, DHHC domain containing 16 (ZDHHC16), transcri
NM_198047	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH), transcrip
NM_198053	Homo sapiens CD3Z antigen, zeta polypeptide (TiT3 complex) (CD3Z), trans
NM_198055	Homo sapiens zinc finger protein 42 (myeloid-specific retinoic acid-responsiv

NM_198056	Homo sapiens sodium channel, voltage-gated, type V, alpha (long QT syndro
NM_198057	Homo sapiens delta sleep inducing peptide, immunoreactor (DSIPI), transcri
NM_198058	Homo sapiens zinc finger protein 266 (ZNF266), mRNA
NM_198060	Homo sapiens nebulin-related anchoring protein (NRAP), transcript variant 2
NM_198061	Homo sapiens carboxylesterase 2 (intestine, liver) (CES2), transcript variant
NM_198066	Homo sapiens glucosamine-phosphate N-acetyltransferase 1 (GNPNAT1), rr
NM_198074	Homo sapiens olfactory receptor, family 2, subfamily C, member 3 (OR2C3),
NM_198075	Homo sapiens hypothetical protein DKFZp761L1518 (DKFZp761L1518), mR
NM_198076	Homo sapiens family with sequence similarity 36, member A (FAM36A), mRt
NM_198077	Homo sapiens gm117 (gm117), mRNA
NM_198078	Homo sapiens chromosome 21 open reading frame 121 (C21orf121), mRNA
NM_198079	Homo sapiens similar to golgi autoantigen, golgin subfamily a (FLJ40113), m
NM_198080	Homo sapiens hypothetical protein LOC253827 (LOC253827), mRNA
NM_198081	Homo sapiens sex comb on midleg-like 4 (Drosophila) (SCML4), mRNA
NM_198082	Homo sapiens hypothetical protein LOC284001 (LOC284001), mRNA
NM_198083	Homo sapiens dehydrogenase/reductase (SDR family) member 4 like 2 (DHF
NM_198085	Homo sapiens ring finger protein 148 (RNF148), mRNA
NM_198086	Homo sapiens jub, ajuba homolog (Xenopus laevis) (JUB), transcript variant
NM_198087	Homo sapiens zinc finger protein 200 (ZNF200), mRNA
NM_198088	Homo sapiens zinc finger protein 200 (ZNF200), mRNA
NM_198089	Homo sapiens zinc finger protein 155 (pHZ-96) (ZNF155), transcript variant 2
NM_198097	Homo sapiens chromosome 7 open reading frame 28B (C7orf28B), mRNA
NM_198098	Homo sapiens aquaporin 1 (channel-forming integral protein, 28kDa) (AQP1)
NM_198120	Homo sapiens estrogen receptor binding site associated, antigen, 9 (EBAG9
NM_198123	Homo sapiens CUB and Sushi multiple domains 3 (CSMD3), transcript variar
NM_198124	Homo sapiens CUB and Sushi multiple domains 3 (CSMD3), transcript variar
NM_198125	Homo sapiens TYRO protein tyrosine kinase binding protein (TYROBP), tran
NM_198128	Homo sapiens ring finger protein 138 (RNF138), transcript variant 2, mRNA
NM_198129	Homo sapiens laminin, alpha 3 (LAMA3), transcript variant 1, mRNA
NM_198138	Homo sapiens SEC31-like 2 (S. cerevisiae) (SEC31L2), transcript variant 2, I
NM_198139	Homo sapiens semenogelin I (SEMG1), transcript variant 2, mRNA
NM_198141	Homo sapiens glucosidase, alpha; neutral C (GANC), mRNA
NM_198147	Homo sapiens hypothetical protein LOC116236 (LOC116236), mRNA
NM_198148	Homo sapiens carboxypeptidase X (M14 family), member 2 (CPXM2), mRNA
NM_198149	Homo sapiens chromosome 1 open reading frame 40 (C1orf40), mRNA
NM_198150	Homo sapiens hypothetical protein DKFZp313G1735 (DKFZp313G1735), mi
NM_198151	Homo sapiens hypothetical protein LOC253012 (LOC253012), mRNA
NM_198152	Homo sapiens urotensin II-related peptide (URP), mRNA
NM_198153	Homo sapiens triggering receptor expressed on myeloid cells-like 4 (TREML
NM_198154	Homo sapiens hypothetical protein LOC339168 (LOC339168), mRNA
NM_198155	Homo sapiens chromosome 21 open reading frame 33 (C21orf33), nuclear g
NM_198156	Homo sapiens von Hippel-Lindau syndrome (VHL), transcript variant 2, mRN
NM_198157	Homo sapiens ubiquitin-conjugating enzyme E2L 3 (UBE2L3), transcript variables
NM_198158	Homo sapiens microphthalmia-associated transcription factor (MITF), transcr
NM_198159	Homo sapiens microphthalmia-associated transcription factor (MITF), transcr
NM_198173	Homo sapiens transcription factor CP2-like 4 (TFCP2L4), transcript variant 2
NM_198174	Homo sapiens transcription factor CP2-like 4 (TFCP2L4), transcript variant 3
NM_198175	Homo sapiens non-metastatic cells 1, protein (NM23A) expressed in (NME1)
NM_198177	Homo sapiens microphthalmia-associated transcription factor (MITF), transcr
NM_198178	Homo sapiens microphthalmia-associated transcription factor (MITF), transcr
NM_198179	Homo sapiens G protein-coupled receptor 103 (GPR103), mRNA
NM_198180	Homo sapiens P518 precursor protein (P518), mRNA
NM_198181	Homo sapiens similar to golgi autoantigen, golgin subfamily a, 2; SY11 prote
NM_198182	Homo sapiens transcription factor CP2-like 2 (TFCP2L2), transcript variant 2
NM_198183	Homo sapiens ubiquitin-conjugating enzyme E2L 6 (UBE2L6), transcript variables capiens agrees in (OSTN) mPNA
NM_198184	Homo sapiens oxiduatin protesso (OVTN), mRNA
NM_198185	Homo sapiens oviductin protease (OVTN), mRNA

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NM_198186 Homo sapiens astrotactin 2 (ASTN2), transcript variant 2, mRNA
 NM_198187
             Homo sapiens astrotactin 2 (ASTN2), transcript variant 3, mRNA
 NM_198188
             Homo sapiens astrotactin 2 (ASTN2), transcript variant 4, mRNA
 NM 198189
             Homo sapiens COP9 constitutive photomorphogenic homolog subunit 8 (Ara
NM 198194
             Homo sapiens stomatin (STOM), transcript variant 2, mRNA
             Homo sapiens ubiquitin-activating enzyme E1C (UBA3 homolog, yeast) (UBE
NM 198195
NM_198196 Homo sapiens CD96 antigen (CD96), transcript variant 1, mRNA
             Homo sapiens ubiquitin-activating enzyme E1C (UBA3 homolog, yeast) (UBE
NM 198197
NM_198201
             Homo sapiens processing of precursor 5, ribonuclease P/MRP subunit (S. c\varepsilon
NM_198202 Homo sapiens processing of precursor 5, ribonuclease P/MRP subunit (S. ce
             Homo sapiens transcription factor-like 4 (TCFL4), transcript variant 2, mRNA
NM_198204
NM_198205 Homo sapiens transcription factor-like 4 (TCFL4), transcript variant 1, mRNA
NM_198207 Homo sapiens LAG1 longevity assurance homolog 1 (S. cerevisiae) (LASS1)
NM_198212 Homo sapiens caveolin 2 (CAV2), transcript variant 2, mRNA
NM_198213 Homo sapiens 2'-5'-oligoadenylate synthetase-like (OASL), transcript variant
NM_198215 Homo sapiens family with sequence similarity 13, member C1 (FAM13C1), tr
NM_198216 Homo sapiens small nuclear ribonucleoprotein polypeptides B and B1 (SNRF
NM_198217 Homo sapiens inhibitor of growth family, member 1 (ING1), transcript variant
NM_198218 Homo sapiens inhibitor of growth family, member 1 (ING1), transcript variant
NM_198219 Homo sapiens inhibitor of growth family, member 1 (ING1), transcript variant
NM_198220 Homo sapiens small nuclear ribonucleoprotein polypeptide B" (SNRPB2), tra
NM 198225
             Homo sapiens Rho-related BTB domain containing 1 (RHOBTB1), transcript
             Homo sapiens regulator of G-protein signalling 12 (RGS12), transcript varian
NM_198227
             Homo sapiens regulator of G-protein signalling 12 (RGS12), transcript varian
NM 198229
             Homo sapiens regulator of G-protein signalling 12 (RGS12), transcript varian
NM 198230
NM 198232
             Homo sapiens ribonuclease, RNase A family, 1 (pancreatic) (RNASE1), trans
NM_198234 Homo sapiens ribonuclease, RNase A family, 1 (pancreatic) (RNASE1), trans
NM_198235 Homo sapiens ribonuclease, RNase A family, 1 (pancreatic) (RNASE1), trans
NM_198236 Homo sapiens Rho guanine nucleotide exchange factor (GEF) 11 (ARHGEF
NM 198239
            Homo sapiens WNT1 inducible signaling pathway protein 3 (WISP3), transcr
NM_198240 Homo sapiens restin (Reed-Steinberg cell-expressed intermediate filament-a
NM_198241 Homo sapiens eukaryotic translation initiation factor 4 gamma, 1 (EIF4G1), tr
NM_198242 Homo sapiens eukaryotic translation initiation factor 4 gamma, 1 (EIF4G1), tr
NM_198243 Homo sapiens ankyrin repeat and SOCS box-containing 7 (ASB7), transcript
NM_198244 Homo sapiens eukaryotic translation initiation factor 4 gamma, 1 (EIF4G1), tr
NM_198252 Homo sapiens gelsolin (amyloidosis, Finnish type) (GSN), transcript variant 2
NM_198253 Homo sapiens telomerase reverse transcriptase (TERT), transcript variant 3,
NM_198254 Homo sapiens telomerase reverse transcriptase (TERT), transcript variant 4,
NM_198255 Homo sapiens telomerase reverse transcriptase (TERT), transcript variant 2,
NM_198256 Homo sapiens E2F transcription factor 6 (E2F6), transcript variant b, mRNA
NM_198257 Homo sapiens E2F transcription factor 6 (E2F6), transcript variant e, mRNA
NM_198258 Homo sapiens E2F transcription factor 6 (E2F6), transcript variant 4, mRNA
NM 198261 Homo sapiens similar to splicing factor, arginine/serine-rich 4 (FLJ11021), tra
NM_198262 Homo sapiens similar to splicing factor, arginine/serine-rich 4 (FLJ11021), tra
NM_198263
            Homo sapiens similar to splicing factor, arginine/serine-rich 4 (FLJ11021), tra
NM_198264
            Homo sapiens chromosome 1 open reading frame 2 (C1orf2), transcript varia
NM_198265
            Homo sapiens SPO11 meiotic protein covalently bound to DSB-like (S. cerev
NM_198266
            Homo sapiens inhibitor of growth family, member 3 (ING3), transcript variant
            Homo sapiens inhibitor of growth family, member 3 (ING3), transcript variant
NM 198267
            Homo sapiens homeodomain interacting protein kinase 1 (HIPK1), transcript
NM 198268
            Homo sapiens homeodomain interacting protein kinase 1 (HIPK1), transcript
NM 198269
NM_198270
            Homo sapiens Nance-Horan syndrome (congenital cataracts and dental anoi
            Homo sapiens leiomodin 3 (fetal) (LMOD3), mRNA
NM_198271
NM_198274
            Homo sapiens SET and MYND domain containing 1 (SMYD1), mRNA
NM_198275
            Homo sapiens hypothetical protein LOC196264 (LOC196264), mRNA
NM 198276
            Homo sapiens transmembrane protein 17 (TMEM17), mRNA
NM_198277 Homo sapiens solute carrier family 37 (glycerol-3-phosphate transporter), me
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NM_198278	Homo sapiens hypothetical protein LOC255743 (LOC255743), mRNA
NM_198279	Homo sapiens chromosome X open reading frame 23 (CXorf23), mRNA
NM_198281	Homo sapiens hypothetical protein LOC285513 (LOC285513), mRNA
NM_198282	Homo sapiens hypothetical protein LOC340061 (LOC340061), mRNA
NM 198283	Homo sapiens EGF-like-domain, multiple 11 (EGFL11), mRNA
NM 198284	Homo sapiens hypothetical protein LOC349114 (LOC349114), mRNA
NM_198285	Homo sapiens hypothetical protein LOC349136 (LOC349136), mRNA
NM 198287	Homo sapiens inhibitor of growth family, member 4 (ING4), transcript variant
NM_198289	Home conions call death indusing DECA like offer two (ODEA), transcript variant
_	Homo sapiens cell death-inducing DFFA-like effector a (CIDEA), transcript ve
NM_198291	Homo sapiens v-src sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog
NM_198309	Homo sapiens tetratricopeptide repeat domain 8 (TTC8), transcript variant 1,
NM_198310	Homo sapiens tetratricopeptide repeat domain 8 (TTC8), transcript variant 2,
NM_198312	Homo sapiens TAK1-binding protein 3 (TAB3), transcript variant 2, mRNA
NM_198315	Homo sapiens loss of heterozygosity, 11, chromosomal region 2, gene A (LC
NM_198316	Homo sapiens tensin like C1 domain containing phosphatase (TENC1), trans
NM_198317	Homo sapiens kelch-like 17 (Drosophila) (KLHL17), mRNA
NM_198318	Homo sapiens HMT1 hnRNP methyltransferase-like 2 (S. cerevisiae) (HRMT
NM 198319	Homo sapiens HMT1 hnRNP methyltransferase-like 2 (S. cerevisiae) (HRMT
NM_198320	Homo sapiens carboxypeptidase M (CPM), transcript variant 2, mRNA
NM_198321	Homo sapiens UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylga
NM_198324	Homo sapiens citrate synthase (CS), nuclear gene encoding mitochondrial p
NM_198325	Homo sapiens E2F transcription factor 6 (E2F6), transcript variant c, mRNA
NM 198327	Homo sapiens suppression of tumorigenicity 7 like (ST7L), transcript variant
NM_198328	Home papiers suppression of turnoring rights 7 like (ST7L), transcript variant
	Homo sapiens suppression of tumorigenicity 7 like (ST7L), transcript variant
NM_198329	Homo sapiens ubiquitin-activating enzyme E1-domain containing 1 (UBE1DC
NM_198330	Homo sapiens inositol polyphosphate-5-phosphatase F (INPP5F), transcript
NM_198331	Homo sapiens inositol polyphosphate-5-phosphatase F (INPP5F), transcript
NM_198333	Homo sapiens purinergic receptor P2Y, G-protein coupled, 10 (P2RY10), trail
NM_198334	Homo sapiens glucosidase, alpha; neutral AB (GANAB), mRNA
NM_198335	Homo sapiens glucosidase, alpha; neutral AB (GANAB), mRNA
NM_198336	Homo sapiens insulin induced gene 1 (INSIG1), transcript variant 2, mRNA
NM_198337	Homo sapiens insulin induced gene 1 (INSIG1), transcript variant 3, mRNA
NM_198353	Homo sapiens potassium channel tetramerisation domain containing 8 (KCT
NM_198376	Homo sapiens calcium channel, voltage-dependent, alpha 1G subunit (CACI
NM_198377	Homo sapiens calcium channel, voltage-dependent, alpha 1G subunit (CACI
NM 198378	Homo sapiens calcium channel, voltage-dependent, alpha 1G subunit (CAC)
NM_198379	Homo sapiens calcium channel, voltage-dependent, alpha 1G subunit (CAC)
NM_198380	Homo sapiens calcium channel, voltage-dependent, alpha 1G subunit (CACI
NM_198381	Homo sapiens E74-like factor 5 (ets domain transcription factor) (ELF5), tran
NM 198382	Homo sapiens calcium channel, voltage-dependent, alpha 1G subunit (CAC)
NM 198383	Homo sapiens calcium channel, voltage-dependent, alpha 1G subunit (CAC)
NM_198384	Homo sapiens calcium channel, voltage-dependent, alpha 1G subunit (CAC)
NM_198385	Home septems calcium channel, voltage-dependent, alpha 16 subunit (CAC)
	Homo sapiens calcium channel, voltage-dependent, alpha 1G subunit (CAC)
NM_198386	Homo sapiens calcium channel, voltage-dependent, alpha 1G subunit (CAC)
NM_198387	Homo sapiens calcium channel, voltage-dependent, alpha 1G subunit (CACI
NM_198388	Homo sapiens calcium channel, voltage-dependent, alpha 1G subunit (CAC)
NM_198389	Homo sapiens lung type-I cell membrane-associated glycoprotein (T1A-2), tr
NM_198390	Homo sapiens c-Maf-inducing protein (CMIP), transcript variant C-mip, mRN/
NM_198391	Homo sapiens fibronectin leucine rich transmembrane protein 3 (FLRT3), tra
NM_198392	Homo sapiens transcription factor 21 (TCF21), transcript variant 1, mRNA
NM_198393	Homo sapiens testis expressed sequence 14 (TEX14), transcript variant 1, m
NM_198394	Homo sapiens chromosome 9 open reading frame 85 (C9orf85), transcript ve
NM_198395	Homo sapiens Ras-GTPase-activating protein SH3-domain-binding protein (
NM_198396	Homo sapiens calcium channel, voltage-dependent, alpha 1G subunit (CAC)
NM_198397	Homo sapiens calcium channel, voltage-dependent, alpha 1G subunit (CAC)
NM_198398	Homo sapiens serologically defined breast cancer antigen 84 (SDBCAG84),
NM_198399	Homo sapiens cyclic AMP-regulated phosphoprotein, 21 kD (ARPP-21), trans
	tidili

NM 198400	Homo sapiens neural precursor cell expressed, developmentally down-regula
NM_198401	Homo sapiens hypothetical protein LOC157567 (LOC157567), mRNA
NM 198402	Homo sapiens protein tyrosine phosphatase-like (proline instead of catalytic
NM 198403	Homo sapiens monocyte to macrophage differentiation-associated 2 (MMD2)
NM_198404	Homo sapien s potassium channel tetramerisation domain containing 4 (KCI
NM_198406	Homo sapiens progestin and adipoQ receptor family member VI (PAQR6), to
NM 198407	Homo sapien s growth hormone secretagogue receptor (GHSR), transcript va
NM_198426	Homo sapiens putative breast adenocarcinoma marker (32kD) (BC-2), transc
NM 198427	Homo sapien's brevican (BCAN), transcript variant 2, mRNA
NM_198428	Homo sapiens parathyroid hormone-responsive B1 gene (B1), transcript vari
NM_198430	Homo sapien's regulator of G-protein signalling 12 (RGS12), transcript varian
NM 198431	Homo sapien s heat shock 70kDa protein 4 (HSPA4), transcript variant 2, mR
NM 198432	Homo sapiens regulator of G-protein signalling 12 (RGS12), transcript varian
NM_198433	Homo sapiens serine/threonine kinase 6 (STK6), transcript variant 1, mRNA
NM_198434	Homo sapiens serine/threonine kinase 6 (STK6), transcript variant 3, mRNA
NM 198435	Homo sapien's serine/threonine kinase 6 (STK6), transcript variant 4, mRNA
NM_198436	Homo sapien's serine/threonine kinase 6 (STK6), transcript variant 5, mRNA
NM 198437	Homo sapien's serine/threonine kinase 6 (STK6), transcript variant 6, mRNA
NM_198439	Homo sapien's kelch repeat and BTB (POZ) domain containing 3 (KBTBD3),
NM_198440	Homo sapien's chromosome 22 open reading frame 14 (C22orf14), transcript
NM_198441	Homo sapien's FLJ40296 protein (FLJ40296), mRNA
NM_198442	Homo sapien's FLJ45651 protein (FLJ45651), mRNA
NM_198443	Homo sapien's MRCC2446 (UNQ2446), mRNA
NM_198444	Homo sapien's GPAD9366 (UNQ9366), mRNA
NM_198445	Homo sapiens FLJ45909 protein (FLJ45909), mRNA
NM_198446	Homo sapien s FLJ45459 protein (FLJ45459), mRNA
NM_198447	Homo sapiens FLJ42654 protein (FLJ42654), mRNA
NM_198448	Homo sapien's LPPM429 (UNQ429), mRNA
NM_198449	Homo sapiens similar to embigin (MGC71745), mRNA
NM_198450	Homo sapiens AAIR8193 (UNQ8193), mRNA
NM_198451	Homo sapiens forkhead box R2 (FOXR2), mRNA
NM_198452	Homo sapiens pregnancy upregulated non-ubiquitously expressed CaM kina
NM_198457	Homo sapiens zinc finger protein 600 (ZNF600), mRNA
NM_198458	Homo sapiens zinc finger protein 497 (ZNF497), mRNA
NM_198459	Homo sapiens FLJ37099 protein (FLJ37099), mRNA
NM_198460	Homo sapiens hypothetical protein DKFZp686G0786 (DKFZp686G0786), mf
NM_198461	Homo sapiens FLJ45273 protein (FLJ45273), mRNA
NM_198462	Homo sapiens FLJ46154 protein (FLJ46154), mRNA Homo sapiens FLJ42117 protein (FLJ42117), mRNA
NM_198463	Homo sapiens tryptophan/serine protease (UNQ9391), mRNA
NM_198464	
NM_198465	
NM_198466	
NM_198467	2
NM_198468	
NM_198469 NM_198471	
NM_198471	
NM 198473	
NM 198474	·
NM_198476	·
NM 198477	' Homo saniens DMC (UNQ473), mRNA
NM_198478	I NED ICAD (). Dilean demoin containing 1 (NKDI 11) MI
NM_198479	Homo sapiens FLJ40321 protein (FLJ40321), mRNA
NM_198480	Homo sapiens zinc finger protein 615 (ZNF615), mRNA
NM 198481	Homo sapiens LAIR hlog (UNQ3033), mRNA
NM_198482	Phomo sapiens similar to B-cell linker; B cell linker protein (LOC284948), trans
NM_198483	

NM_198484	Homo sapiens zinc finger protein 621 (ZNF621), mRNA
NM_198485	Homo sapiens FLJ41238 protein (FLJ41238), mRNA
NM_198486	Homo sapiens ribosomal protein L7-like 1 (RPL7L1), mRNA
NM_198488	Homo sapiens FLJ46072 protein (FLJ46072), mRNA
NM_198489	Homo sapiens similar to DLNB14 (DLNB14), mRNA
NM_198490	Homo sapiens RAB43, member RAS oncogene family (RAB43), mRNA
NM_198491	Homo sapiens FLJ44299 protein (FLJ44299), mRNA
NM 198492	Homo sapiens liver and lymph node sinusoidal endothelial cell C-type lectin (
NM 198493	Homo sapiens FLJ45235 protein (FLJ45235), mRNA
NM 198494	Homo sapiens FLJ16030 protein (FLJ16030), mRNA
NM_198495	Homo sapiens CTAGE family, member 4 (CTAGE4), mRNA
NM 198496	Homo sapiens A-domain containing protein similar to matrilin and collagen (/
NM 198498	Homo sapiens Similar to RIKEN cDNA 1810046K07 gene (MGC50104), mRI
NM_198499	Homo sapiens FLJ46156 protein (FLJ46156), mRNA
NM 198501	Homo sapiens FLJ42461 protein (FLJ42461), mRNA
NM 198502	Homo sapiens FLJ43826 protein (FLJ43826), mRNA
NM_198503	Homo sapiens sodium- and chloride-activated ATP-sensitive potassium char
NM_198504	Homo sapiens progestin and adipoQ receptor family member IX (PAQR9), m
NM_198506	Homo sapiens FLJ44691 protein (FLJ44691), mRNA
NM_198507	Homo sapiens HGS_RE408 (UNQ1912), mRNA
NM 198508	Homo sapiens FLJ44186 protein (FLJ44186), mRNA
NM_198510	Homo sapiens ITI-like protein (UNQ6369), mRNA
NM_198511	Homo sapiens FLJ42925 protein (FLJ42925), mRNA
NM 198512	Homo sapiens FLJ25989 protein (FLJ25989), mRNA
NM_198513	Homo sapiens CGI-72 protein (CGI-72), transcript variant 3, mRNA
NM 198514	
_	Homo sapiens NHL repeat containing 2 (NHLRC2), mRNA
NM_198516	Homo sapiens UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylga
NM_198517	Homo sapiens FLJ00332 protein (FLJ00332), mRNA
NM_198519	Homo sapiens similar to Cytochrome c, somatic (MGC12965), mRNA
NM_198520	Homo sapiens FLJ44112 protein (FLJ44112), mRNA
NM_198521	Homo sapiens FLJ25323 protein (FLJ25323), mRNA
NM_198524	Homo sapiens LOC161577 protein (LOC161577), mRNA
NM_198525	Homo sapiens similar to kinesin family member 21A; N-5 kinesin (LOC37465
NM_198526	Homo sapiens hypothetical protein DKFZp547K1113 (DKFZp547K1113), mF
NM_198527	Homo sapiens Similar to RIKEN cDNA 1110033009 gene (MGC45386), mRI
NM_198529	Homo sapiens FLJ46247 protein (FLJ46247), mRNA
NM_198531	Homo sapiens ATPase, Class II, type 9B (ATP9B), mRNA
NM_198532	Homo sapiens chromosome 19 open reading frame 35 (C19orf35), mRNA
NM_198533	Homo sapiens short-chain dehydrogenase/reductase 10 (SCDR10), transcrip
NM_198534	Homo sapiens FLJ35784 protein (FLJ35784), mRNA
NM_198537	Homo sapiens FLJ44968 protein (FLJ44968), mRNA
NM_198538	Homo sapiens HLAR698 (UNQ698), mRNA
NM_198539	Homo sapiens zinc finger protein 568 (ZNF568), mRNA
NM_198540	Homo sapiens UDP-Gal:betaGal beta 1,3-galactosyltransferase polypeptide
NM_198541	Homo sapiens insulin growth factor-like family member 1 (IGFL1), mRNA
NM_198542	Homo sapiens similar to hypothetical protein FLJ23233 (MGC4728), mRNA
NM_198543	Homo sapiens LOC148872 protein (LOC148872), mRNA
NM_198544	Homo sapiens cortistatin (CORT), transcript variant 1, mRNA
NM_198545	Homo sapiens hypothetical gene supported by AK075558; BC021286 (LOC3
NM_198546	Homo sapiens hypothetical protein LOC374955 (LOC374955), mRNA
NM_198547	Homo sapiens FLJ46354 protein (FLJ46354), mRNA
NM_198549	Homo sapiens FLJ35093 protein (FLJ35093), mRNA
NM_198550	Homo sapiens FLJ36760 protein (FLJ36760), mRNA
NM_198552	Homo sapiens hypothetical gene supported by BC009447 (MGC15887), mRI
NM_198553	Homo sapiens FLJ30851 protein (FLJ30851), mRNA
NM_198554	Homo sapiens thyroid adenoma associated (THADA), mRNA
NM_198557	Homo sapiens FLJ45645 protein (FLJ45645), mRNA

NM_198559	Homo sapiens hypothetical gene supported by BC052750 (MGC50811), mRI
NM_198560	Homo sapiens lipoma HMGIC fusion partner-like protein 4 (LOC375323), mR
NM_198562	Homo sapiens FLJ43654 protein (FLJ43654), mRNA
NM_198563	Homo sapiens Similar to RIKEN cDNA 1810038N08 gene (MGC52022), mRI
NM_198564	Homo sapiens F LJ44290 protein (FLJ44290), mRNA
NM_198565	Homo sapiens ELLP3030 (UNQ3030), mRNA
NM_198566	Homo sapiens FLJ32363 protein (FLJ32363), mRNA
NM_198567	Homo sapiens FLJ44216 protein (FLJ44216), mRNA
NM_198568	Homo sapiens gap junction protein, beta 7 (GJB7), mRNA
NM_198569	Homo sapiens G protein-coupled receptor 126 (GPR126), mRNA
NM_198570	Homo sapiens PSST739 (UNQ739), mRNA
NM_198571	Homo sapiens FLJ39237 protein (FLJ39237), mRNA
NM_198572	Homo sapiens similar to Putative protein C21orf56 (MGC61633), mRNA
NM_198573	Homo sapiens GAAI470 (UNQ470), mRNA
NM_198577	Homo sapiens FLJ46361 protein (FLJ46361), mRNA
NM_198580	Homo sapiens solute carrier family 27 (fatty acid transporter), member 1 (SLI
NM_198581	Homo sapiens zinc finger CCCH type domain containing 6 (ZC3HDC6), mRN
NM_198582	Homo sapiens F LJ43374 protein (FLJ43374), mRNA
NM_198584	Homo sapiens carbonic anhydrase XIII (CA13), mRNA
NM_198585	Homo sapiens GLSR2492 (UNQ2492), mRNA
NM_198586	Homo sapiens NHL repeat containing 1 (NHLRC1), mRNA
NM_198587	Homo sapiens regulator of G-protein signalling 12 (RGS12), transcript varian
NM_198589	Homo sapiens basigin (OK blood group) (BSG), transcript variant 2, mRNA
NM_198590	Homo sapiens basigin (OK blood group) (BSG), transcript variant 3, mRNA
NM_198591	Homo sapiens basigin (OK blood group) (BSG), transcript variant 4, mRNA
NM_198593	Homo sapiens C1q and tumor necrosis factor related protein 1 (C1QTNF1), t
NM_198594	Homo sapiens C1q and tumor necrosis factor related protein 1 (C1QTNF1), r
NM_198595	Homo sapiens actin filament associated protein (AFAP), transcript variant 2,
NM_198596	Homo sapiens sulfatase 2 (SULF2), transcript variant 2, mRNA
NM_198597	Homo sapiens SEC24 related gene family, member C (S. cerevisiae) (SEC24
NM_198679	Homo sapiens Rap guanine nucleotide exchange factor (GEF) 1 (RAPGEF1)
NM_198681	Homo sapiens putative NFkB activating protein (KIAA0720), transcript varian
NM_198682	Homo sapiens glycophorin E (GYPE), transcript variant 2, mRNA
NM_198686	Homo sapiens RAB15, member RAS onocogene family (RAB15), mRNA
NM_198687	Homo sapiens keratin associated protein 10-4 (KRTAP10-4), mRNA
NM_198688	Homo sapiens keratin associated protein 10-6 (KRTAP10-6), mRNA
NM_198689	Homo sapiens keratin associated protein 10-7 (KRTAP10-7), mRNA
NM_198690	Homo sapiens keratin associated protein 10-9 (KRTAP10-9), mRNA
NM_198691	Homo sapiens keratin associated protein 10-1 (KRTAP10-1), mRNA
NM_198692	Homo sapiens keratin associated protein 10-11 (KRTAP10-11), mRNA
NM_198693	Homo sapiens keratin associated protein 10-2 (KRTAP10-2), mRNA
NM_198694	Homo sapiens keratin associated protein 10-5 (KRTAP10-5), mRNA
NM_198695	Homo sapiens keratin associated protein 10-8 (KRTAP10-8), mRNA
NM_198696	Homo sapiens keratin associated protein 10-3 (KRTAP10-3), mRNA
NM_198697	Homo sapiens keratin associated protein 12-3 (KRTAP12-3), mRNA
NM_198698	Homo sapiens keratin associated protein 12-4 (KRTAP12-4), mRNA
NM_198699	Homo sapiens keratin associated protein 10-12 (KRTAP10-12), mRNA
NM_198700	Homo sapiens CUG triplet repeat, RNA binding protein 1 (CUGBP1), transcri
NM_198704	Homo sapiens short-chain dehydrogenase/reductase 10 (SCDR10), transcrip
NM_198705	Homo sapiens short-chain dehydrogenase/reductase 10 (SCDR10), transcrit
NM_198706	Homo sapiens short-chain dehydrogenase/reductase 10 (SCDR10), transcrip
NM_198707	Homo sapiens short-chain dehydrogenase/reductase 10 (SCDR10), transcrip
NM_198708	Homo sapiens short-chain dehydrogenase/reductase 10 (SCDR10), transcrip
NM_198709	Homo sapiens arylsulfatase B (ARSB), transcript variant 2, mRNA
NM_198712	Homo sapiens prostaglandin E receptor 3 (subtype EP3) (PTGER3), transcrip
NM_198713	Homo sapiens prostaglandin E receptor 3 (subtype EP3) (PTGER3), transcrip
NM_198714	Homo sapiens prostaglandin E receptor 3 (subtype EP3) (PTGER3), transcri

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NM_198715 Homo sapiens prostaglandin E receptor 3 (subtype EP3) (PTGER3), transcrip
 NM_198716
             Homo sapiens prostaglandin E receptor 3 (subtype EP3) (PTGER3), transcrij
 NM_198717
             Homo sapiens prostaglandin E receptor 3 (subtype EP3) (PTGER3), transcrip
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             Homo sapiens prostaglandin E receptor 3 (subtype EP3) (PTGER3), transcri
 NM_198719
             Homo sapiens prostaglandin E receptor 3 (subtype EP3) (PTGER3), transcrij
 NM_198720 Homo sapiens prostaglandin E receptor 3 (subtype EP3) (PTGER3), transcrip
 NM 198721
             Homo sapiens collagen, type XXV, alpha 1 (COL25A1), transcript variant 1, r
 NM_198722 Homo sapiens amphoterin-induced gene and ORF 3 (AMIGO3), mRNA
 NM_198723 Homo sapiens transcription elongation factor A (SII), 2 (TCEA2), transcript ve
 NM_198793 Homo sapiens CD47 antigen (Rh-related antigen, integrin-associated signal
 NM_198794 Homo sapiens mitogen-activated protein kinase kinase kinase kinase 5 (MAF
 NM_198795 Homo sapiens tudor domain containing 1 (TDRD1), mRNA
 NM_198797 Homo sapiens prostaglandin E synthase (PTGES), transcript variant 2, mRN
 NM_198798 Homo sapiens ankyrin repeat domain 5 (ANKRD5), transcript variant 2, mRN
 NM_198799 Homo sapiens breast carcinoma amplified sequence 4 (BCAS4), transcript vi
NM_198822 Homo sapiens ATP synthase, H+ transporting, mitochondrial F0 complex, su
 NM 198827
             Homo sapiens G protein-coupled receptor 133 (GPR133), mRNA
NM_198828 Homo sapiens similar to microtubule associated testis specific serine/threoni
NM_198829 Homo sapiens ras-related C3 botulinum toxin substrate 1 (rho family, small C
NM_198830 Homo sapiens ATP citrate lyase (ACLY), transcript variant 2, mRNA
NM_198833 Homo sapiens serine (or cysteine) proteinase inhibitor, clade B (ovalbumin),
NM_198834 Homo sapiens acetyl-Coenzyme A carboxylase alpha (ACACA), transcript va
             Homo sapiens acetyl-Coenzyme A carboxylase alpha (ACACA), transcript va
NM_198835
            Homo sapiens acetyl-Coenzyme A carboxylase alpha (ACACA), transcript va
NM 198836
             Homo sapiens acetyl-Coenzyme A carboxylase alpha (ACACA), transcript va
NM 198837
NM_198838 Homo sapiens acetyl-Coenzyme A carboxylase alpha (ACACA), transcript va
NM_198839 Homo sapiens acetyl-Coenzyme A carboxylase alpha (ACACA), transcript va
NM_198841
            Homo sapiens chromosome 9 open reading frame 10 opposite strand (C9orf
NM 198843
            Homo sapiens surfactant, pulmonary-associated protein B (SFTPB), transcrip
NM 198844
             Homo sapiens zona pellucida binding protein 2 (ZPBP2), transcript variant 1,
NM_198845
            Homo sapiens sialic acid binding Ig-like lectin 6 (SIGLEC6), transcript varian
NM 198846
            Homo sapiens sialic acid binding Ig-like lectin 6 (SIGLEC6), transcript varian
NM 198847
            Homo sapiens FLJ22794 protein (FLJ22794), transcript variant 2, mRNA
NM 198849
            Homo sapiens similar to seven in absentia 2 (LOC283514), mRNA
NM_198850 Homo sapiens pleckstrin homology-like domain, family B, member 3 (PHLDE
NM_198851
             Homo sapiens hypothetical protein LOC348645 (LOC348645), mRNA
            Homo sapiens tripartite motif-containing 50C (TRIM50C), mRNA
NM_198853
            Homo sapiens zinc finger protein 211 (ZNF211), transcript variant 2, mRNA
NM_198855
NM 198856
            Homo sapiens CAP-binding protein complex interacting protein 1 (FLJ23588)
NM_198857 Homo sapiens similar to sodium- and chloride-dependent creatine transporte
NM_198859
            Homo sapiens prickle-like 2 (Drosophila) (PRICKLE2), mRNA
NM_198867
            Homo sapiens hypothetical protein MGC15677 (MGC15677), transcript varia
NM 198868
            Homo sapiens KIAA0676 protein (KIAA0676), transcript variant 1, mRNA
NM_198880
            Homo sapiens FLJ20259 protein (FLJ20259), transcript variant 2, mRNA
NM_198881
            Homo sapiens FLJ20298 protein (FLJ20298), transcript variant 2, mRNA
NM_198883
            Homo sapiens metaxin 1 (MTX1), transcript variant 2, mRNA
NM_198887
             Homo sapiens nucleoporin 43kDa (NUP43), transcript variant 1, mRNA
            Homo sapiens ankyrin repeat domain 17 (ANKRD17), transcript variant 2, ml
NM 198889
             Homo sapiens APG16 autophagy 16-like (S. cerevisiae) (APG16L), transcrip
NM 198890
            Homo sapiens BMP2 inducible kinase (BMP2K), transcript variant 1, mRNA
NM_198892
NM 198893
            Homo sapiens zinc finger protein 160 (ZNF160), transcript variant 2, mRNA
            Homo sapiens RAB6A, member RAS oncogene family (RAB6A), transcript va
NM_198896
NM_198897
            Homo sapiens fibroblast growth factor (acidic) intracellular blnding protein (F
NM_198900
            Homo sapiens formin-like 3 (FMNL3), transcript variant 2, mRNA
NM_198901
            Homo sapiens sorcin (SRI), transcript variant 2, mRNA
NM_198902
            Homo sapiens transmembrane 4 superfamily member 8 (TM4SF8), transcrip-
NM 198903
            Homo sapiens gamma-aminobutyric acid (GABA) A receptor, gamma 2 (GAE
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NM 198904 Homo sapiens gamma-aminobutyric acid (GABA) A receptor, gamma 2 (GAE Homo sapiens hypothetical protein LOC253982 (LOC253982), mRNA NM 198907 Homo sapiens chromosome 6 open reading frame 157 (C6orf157), mRNA NM 198920 NM 198923 Homo sapiens MAS-related GPR, member D (MRGPRD), mRNA Homo sapiens hypothetical protein MGC45477 (MGC45477), mRNA NM 198924 Homo sapiens sema domain, immunoglobulin domain (lg), transmembrane c NM 198925 NM_198926 Homo sapiens hypothetical protein LOC55924 (LOC55924), transcript varian Homo sapiens interferon-inducible protein X (IFIX), transcript variant a2, mRI NM_198928 Homo sapiens interferon-inducible protein X (IFIX), transcript variant b1, mRI NM 198929 Homo sapiens interferon-inducible protein X (IFIX), transcript variant b2, mRI NM 198930 Homo sapiens synovial sarcoma translocation gene on chromosome 18-like NM 198935 Homo sapiens prostaglandin E synthase 2 (PTGES2), transcript variant 2, m NM 198938 Homo sapiens prostaglandin E synthase 2 (PTGES2), transcript variant 3, m NM_198939 Homo sapiens prostaglandin E synthase 2 (PTGES2), transcript variant 4, m NM 198940 Homo sapiens tumor differentially expressed 1 (TDE1), transcript variant 2, n NM 198941 NM 198943 Homo sapiens CXYorf1-related protein (MGC52000), mRNA NM 198944 Homo sapiens olfactory receptor, family 7, subfamily C, member 1 (OR7C1), NM_198945 Homo sapiens amyotrophic lateral sclerosis 2 (juvenile) chromosome region, NM 198946 Homo sapiens lipocalin 6 (LCN6), mRNA Homo sapiens cancer-associated nucleoprotein (CANP), mRNA NM 198947 NM 198948 Homo sapiens nudix (nucleoside diphosphate linked moiety X)-type motif 1 (l NM_198949 Homo sapiens nudix (nucleoside diphosphate linked moiety X)-type motif 1 (l NM_198950 Homo sapiens nudix (nucleoside diphosphate linked moiety X)-type motif 1 (l NM_198951 Homo sapiens transglutaminase 2 (C polypeptide, protein-glutamine-gamma NM_198952 Homo sapiens nudix (nucleoside diphosphate linked moiety X)-type motif 1 (l NM_198953 Homo sapiens nudix (nucleoside diphosphate linked moiety X)-type motif 1 (I Homo sapiens nudix (nucleoside diphosphate linked moiety X)-type motif 1 (l NM 198954 NM 198955 Homo sapiens mannosyl (alpha-1,6-)-glycoprotein beta-1,6-N-acetyl-glucosa Homo sapiens Sp8 transcription factor (SP8), transcript variant 2, mRNA NM 198956 Homo sapiens DEAH (Asp-Glu-Ala-Asp/His) box polypeptide 57 (DHX57), tra NM_198963 Homo sapiens parathyroid hormone-like hormone (PTHLH), transcript varian NM_198964 NM 198965 Homo sapiens parathyroid hormone-like hormone (PTHLH), transcript varian Homo sapiens parathyroid hormone-like hormone (PTHLH), transcript varian NM 198966 NM 198968 Homo sapiens DAZ interacting protein 1 (DZIP1), mRNA Homo sapiens amino-terminal enhancer of split (AES), transcript variant 1, m NM 198969 Homo sapiens amino-terminal enhancer of split (AES), transcript variant 3, m NM 198970 Homo sapiens MBD2 (methyl-CpG-binding protein)-interacting zinc finger pro NM 198971 Homo sapiens MAP kinase interacting serine/threonine kinase 1 (MKNK1), rr NM 198973 Homo sapiens PTK9 protein tyrosine kinase 9 (PTK9), transcript variant 2, m NM_198974 Homo sapiens TH1-like (Drosophila) (TH1L), transcript variant 1, mRNA NM 198976 Homo sapiens Rho guanine nucleotide exchange factor (GEF) 1 (ARHGEF1) NM 198977 Homo sapiens leukocyte receptor cluster (LRC) member 9 (LENG9), mRNA NM_198988 Homo sapiens deleted in lymphocytic leukemia 7 (DLEU7), mRNA NM 198989 Homo sapiens N-acyl-phosphatidylethanolamine-hydrolyzing phospholipase NM 198990 Homo sapiens potassium channel tetramerisation domain containing 1 (KCT NM 198991 Homo sapiens synaptotagmin X (SYT10), mRNA NM 198992 Homo sapiens SH3 and cysteine rich domain 2 (STAC2), mRNA NM_198993 Homo sapiens transglutaminase 6 (TGM6), mRNA NM_198994 Homo sapiens chromosome 18 open reading frame 34 (C18orf34), mRNA NM_198995 Homo sapiens membrane-associated phospholipase A1 beta (LOC375108), NM_198996 Homo sapiens aquaporin 12 (AQP12), mRNA NM_198998 Homo sapiens prestin (motor protein) (PRES), transcript variant a, mRNA NM_198999 NM_199000 Homo sapiens lipoma HMGIC fusion partner-like 3 (LHFPL3), mRNA Homo sapiens Similar to RIKEN cDNA 2310002J15 gene (MGC59937), mRN NM 199001 Homo sapiens Rho guanine nucleotide exchange factor (GEF) 1 (ARHGEF1) NM_199002 Homo sapiens THAP domain containing, apoptosis associated protein 1 (TH, NM_199003 Homo sapiens arrestin, beta 2 (ARRB2), transcript variant 2, mRNA NM 199004

NM_199005	Homo sapiens zinc finger protein 322B (ZNF322B), mRNA
NM_199006	Homo sapiens cortistatin (CORT), transcript variant 3, mRNA
NM_199037	Homo sapiens sodium channel, voltage-gated, type I, beta (SCN1B), transcri
NM_199039	Homo sapiens kelch-like 5 (Drosophila) (KLHL5), transcript variant b, mRNA
NM_199040	Homo sapiens nudix (nu cleoside diphosphate linked moiety X)-type motif 4 (I
NM_199043	Homo sapiens chromosome 14 open reading frame 102 (C14orf102), transci
NM 199044	Homo sapiens MGC22960 gene (MGC22960), mRNA
NM_199046	Homo sapiens testis/pro state/placenta-expressed protein (TEPP), transcript
NM 199047	Homo saplens TATA box binding protein like 2 (TBPL2), mRNA
NM 199050	Homo sapiens chromosome 21 open reading frame 25 (C21orf25), mRNA
NM_199051	Homo sapiens DBCCR1-like (DBCCR1L), mRNA
NM 199052	Homo sapiens chromosome 20 open reading frame 7 (C20orf7), transcript v _ε
NM 199053	Homo saplens FLJ12716 protein (FLJ12716), transcript variant 2, mRNA
NM 199054	Homo sapiens MAP kinase-interacting serine/threonine kinase 2 (MKNK2), r
NM 199069	Homo sapiens nuclear protein E3-3 (DKFZP564J0123), transcript variant 1, r
NM_199070	Homo sapiens nuclear protein E3-3 (DKFZP564J0123), transcript variant 2, r
NM 199071	Home serious obremes me 21 open reading from 50 (C21 or 50), transcript
NM_199071	Homo sapiens chromosome 21 open reading frame 58 (C21orf58), transcript
_	Homo sapiens I-mfa domain-containing protein (HIC), mRNA
NM_199073	Homo sapiens nuclear protein E3-3 (DKFZP564J0123), transcript variant 3, r
NM_199074	Homo sapiens nuclear protein E3-3 (DKFZP564J0123), transcript variant 4, r
NM_199075	Homo sapiens CBF1 interacting corepressor (CIR), transcript variant 2, mRN
NM_199076	Homo sapiens cyclin M2 (CNNM2), transcript variant 2, mRNA
NM_199077	Homo sapiens cyclin M2 (CNNM2), transcript variant 3, mRNA
NM_199078	Homo sapiens cyclin M3 (CNNM3), transcript variant 2, mRNA
NM_199121	Homo sapiens von Willebrand factor A domain-related protein (WARP), trans
NM_199122	Homo sapiens transforming growth factor beta regulator 4 (TBRG4), transcrip
NM_199123	Homo sapiens chromosome 14 open reading frame 154 (C14orf154), transcr
NM_199124	Homo sapiens hypothetical protein FLJ23554 (FLJ23554), transcript variant:
NM_199126	Homo sapiens zinc finger protein 585A (ZNF585A), transcript variant 2, mRN
NM_199127	Homo sapiens gamma-g lutamyltransferase-like 4 (GGTL4), transcript variant
NM_199129	Homo sapiens ubiquitin-conjugating enzyme variant Kua (Kua), mRNA
NM_199131	Homo sapiens ventral anterior homeobox 1 (VAX1), mRNA
NM_199133	Homo sapiens hypothetical protein LOC134145 (LOC134145), mRNA
NM_199135	Homo sapiens FOXD4-like 2 (FOXD4L2), mRNA
NM_199136	Homo sapiens hypothetical protein MGC72075 (MGC72075), mRNA
NM_199138	Homo sapiens hypotheti cal protein FLJ25477 (FLJ25477), transcript variant:
NM_199139	Homo sapiens XIAP associated factor-1 (HSXIAPAF1), transcript variant 2, n
NM_199141	Homo sapiens coactivator-associated arginine methyltransferase 1 (CARM1)
NM_199144	Homo sapiens ubiquitin-conjugating enzyme E2 variant 1 (UBE2V1), transcri
NM_199160	Homo sapiens LIM homeobox 6 (LHX6), transcript variant 2, mRNA
NM_199161	Homo sapiens serum amyloid A1 (SAA1), transcript variant 2, mRNA
NM_199162	Homo sapiens ADP-ribo sylhydrolase like 1 (ADPRHL1), transcript variant 2, I
NM_199163	Homo sapiens CXYorf1-related protein (FLJ25222), mRNA
NM_199165	Homo sapiens adenylosuccinate synthase like 1 (ADSSL1), transcript variant
NM_199166	Homo sapiens aminolevulinate, delta-, synthase 1 (ALAS1), transcript varian
NM_199167	Homo sapiens clusterin-like 1 (retinal) (CLUL1), transcript variant 2, mRNA
NM_199168	Homo sapiens chemokin e (C-X-C motif) ligand 12 (stromal cell-derived factor
NM_199169	Homo sapiens transmembrane, prostate androgen induced RNA (TMEPAI), t
NM_199170	Homo sapiens transmembrane, prostate androgen induced RNA (TMEPAI), t
NM_199171	Homo sapiens transmembrane, prostate androgen induced RNA (TMEPAI), the sapiens bere generally appropriate (also prostate androgen).
NM_199173	Homo sapiens bone gamma-carboxyglutamate (gla) protein (osteocalcin) (BC
NM_199175	Homo sapiens chromosome 21 open reading frame 123 (C21orf123), mRNA
NM_199176	Home sapiens mitochondrial ribosome recycling factor (MRRF), transcript va
NM_199177	Home sapiens mitochondrial ribosome recycling factor (MRRF), transcript va
NM_199179	Homo sapiens kin of IRRE like 2 (Drosophila) (KIRREL2), transcript variant 2 Homo sapiens kin of IRRE like 2 (Drosophila) (KIRREL2), transcript variant 3
NM_199180	Homo sapiens RIJ4467O protein (FLJ44670), mRNA
NM_199181	nomo sapieno i como i protein (i como i o), minima

NM_199182	Homo sapiens hLAT1-3TM (IMAA), mRNA
NM_199183	Homo sapiens testis serine protease 5 (TESSP5), mRNA
NM_199184	Homo sapiens chromosome 6 open reading frame 108 (C6orf108), transcript
NM_199185	Homo sapiens nucleophosmin (nucleolar phosphoprotein B23, numatrin) (NF
NM_199186	Homo sapiens 2,3-bisphosphoglycerate mutase (BPGM), transcript variant 2
NM_199187	Homo sapiens keratin 18 (KRT18), transcript variant 2, mRNA
NM_199188	Homo sapiens c-Mpl binding protein (LOC113251), transcript variant 2, mRN
NM_199190	Homo sapiens c-Mpl binding protein (LOC113251), transcript variant 3, mRN
NM_199191	Homo sapiens brain and reproductive organ-expressed (TNFRSF1A modulal
NM_199192	Homo sapiens brain and reproductive organ-expressed (TNFRSF1A modulat
NM_199193	Homo sapiens brain and reproductive organ-expressed (TNFRSF1A modulai
NM 199194	Homo sapiens brain and reproductive organ-expressed (TNFRSF1A modulal
NM 199202	Homo sapiens Theg homolog (mouse) (THEG), transcript variant 2, mRNA
NM_199203	Homo sapiens ubiquitin-conjugating enzyme E2 variant 1 (Kua-UEV), transcr
NM 199204	Homo sapiens dehydrogenase/reductase (SDR family) member 9 (DHRS9),
NM_199205	Homo sapiens p30 DBC protein (DBC-1), transcript variant 2, mRNA
NM 199206	Homo sapiens T-cell leukemia/lymphoma 1B (TCL1B), transcript variant 2, m
NM_199227	Homo sapiens methionine aminopeptidase 1D (MAP1D), mRNA
NM 199228	Homo sapiens thrombopoietin (myeloproliferative leukemia virus oncogene li
NM_199229	Homo sapiens ribulose-5-phosphate-3-epimerase (RPE), transcript variant 1.
NM 199231	Homo sapiens glial cell derived neurotrophic factor (GDNF), transcript varian
NM_199232	Homo sapiens allantoicase (ALLC), transcript variant 2, mRNA
NM_199234	Homo sapiens glial cell derived neurotrophic factor (GDNF), transcript varian
NM 199235	Homo sapiens collectin sub-family member 11 (COLEC11), transcript variant
NM_199242	Homo sapiens unc-13 homolog D (C. elegans) (UNC13D), mRNA
NM 199243	Homo sapiens G protein-coupled receptor 150 (GPR150), mRNA
NM 199244	Homo sapiens forkhead box protein D4b (FOXD4b), mRNA
NM 199245	Homo sapiens vesicle-associated membrane protein 1 (synaptobrevin 1) (VA
NM_199246	Homo sapiens cyclin G1 (CCNG1), transcript variant 2, mRNA
NM 199247	Homo sapiens calcium channel, voltage-dependent, beta 1 subunit (CACNB
NM 199248	Homo sapiens calcium channel, voltage-dependent, beta 1 subunit (CACNB
NM 199249	Homo sapiens multidrug resistance-related protein (MGC13170), mRNA
NM 199250	Homo sapiens multidrug resistance-related protein (MGC13170), mRNA
NM_199254	Homo sapiens transmembrane phosphoinositide 3-phosphatase and tensin l
NM 199255	Homo sapiens transmembrane phosphoinositide 3-phosphatase and tensin h
NM 199259	Homo sapiens transmembrane phosphatase with tensin homology (TPTE), tr
NM 199260	Homo sapiens transmembrane phosphatase with tensin homology (TPTE), tr
NM_199261	Homo sapiens transmembrane phosphatase with tensin homology (TPTE), tr
NM 199262	Homo sapiens Sp6 transcription factor (SP6), mRNA
NM_199263	Homo sapiens thrombospondin, type I, domain containing 1 (THSD1), transc
NM 199265	Homo sapiens thrombospondin, type I, domain containing 3 (THSD3), transc
NM_199280	Homo sapiens similar to RIKEN cDNA 4632412N22 gene (LOC165186), mR
NM_199282	Homo sapiens likely ortholog of rat CIN85-associated multi-domain containin
NM 199285	Homo sapiens hypothetical LOC284338 (MGC70924), mRNA
NM 199286	Homo sapiens STELLA mRNA (LOC338759), mRNA
NM_199290	Homo sapiens alpha-NAC protein (MGC71999), mRNA
NM_199292	Homo sapiens tyrosine hydroxylase (TH), transcript variant 1, mRNA
NM 199293	Homo sapiens tyrosine hydroxylase (TH), transcript variant 3, mRNA
NM_199294	Homo sapiens cortistatin (CORT), transcript variant 4, mRNA
NM 199295	Homo sapiens cortistatin (CORT), transcript variant 5, mRNA
NM_199296	Homo sapiens thrombospondin, type I, domain containing 3 (THSD3), transc
NM 199297	Homo sapiens thymocyte protein thy28 (THY28), transcript variant 2, mRNA
NM_199298	Homo sapiens thymocyte protein thy28 (THY28), transcript variant 3, mRNA
NM 199320	Homo sapiens PHD protein Jade-1 (JADE1), transcript variant L, mRNA
NM_199321	Homo sapiens zona pellucida binding protein 2 (ZPBP2), transcript variant 2,
NM_199324	Homo sapiens HIV-1 induced protein HIN-1 (HSHIN1), transcript variant 1, m
NM_199326	
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NM 199327 Homo sapiens sprouty homolog 1, antagonist of FGF signaling (Drosophila) t Homo sapiens claudin 8 (CLD N8), mRNA NM 199328 NM 199329 Homo sapiens solute carrier family 43, member 3 (SLC43A3), mRNA NM 199330 Homo sapiens homer homolog 2 (Drosophila) (HOMER2), transcript variant 2 NM 199331 Homo sapiens homer homolog 2 (Drosophila) (HOMER2), transcript variant 3 NM 199332 Homo sapiens homer homolog 2 (Drosophila) (HOMER2), transcript variant 2 Homo sapiens thyroid hormone receptor, alpha (erythroblastic leukemia viral NM 199334 NM_199335 Homo sapiens FYN binding protein (FYB-120/130) (FYB), mRNA Homo sapiens hypothetical protein DKFZp434N062 (DKFZp434N062), mRN. NM_199336 Homo sapiens similar to RIKEN cDNA 1810059G22 (LOC374395), mRNA NM_199337 NM_199338 Homo sapiens FLJ35171 protein (FLJ35171), mRNA Homo sapiens hypothetical protein LOC374768 (LOC374768), mRNA NM_199339 NM_199341 Homo sapiens hypothetical protein LOC374920 (LOC374920), mRNA Homo sapiens hypothetical protein LOC374969 (LOC374969), mRNA NM_199342 Homo sapiens FLJ90637 protein (FLJ90637), mRNA NM 199343 Homo sapiens hypothetical protein LOC375035 (LOC375035), mRNA NM_199344 NM_199345 Homo sapiens similar to phos phatidylinositol 4-kinase alpha (LOC375133), n NM_199346 Homo sapiens profilin family, member 4 (PFN4), mRNA Homo sapiens protocadherin protein CDHJ (CDHJ), transcript variant 2, mRN NM 199348 Homo sapiens kielin-like (LOC375616), mRNA NM 199349 Homo sapiens hypothetical protein LOC375759 (LOC375759), mRNA NM_199350 Homo sapiens chromosome 1 open reading frame 32 (C1orf32), mRNA NM_199351 Homo sapiens putative UST1-like organic anion transporter (LOC387601), m NM 199352 Homo sapiens proline-rich protein BstNI subfamily 1 (PRB1), transcript variai NM 199353 Homo sapiens proline-rich protein BstNI subfamily 1 (PRB1), transcript variai NM 199354 NM_199355 Homo sapiens a disintegrin-like and metalloprotease (reprolysin type) with th NM_199356 Homo sapiens thrombopoietin (myeloproliferative leukemia virus oncogene li Homo sapiens similar to human GTPase-activating protein (ARHGAP11A), n NM 199357 Homo sapiens forkhead box D4 like 3 (FOXD4L3), mRNA NM 199358 NM 199359 Homo sapiens tumor protein D52-like 2 (TPD52L2), transcript variant 6, mRN NM 199360 Homo sapiens tumor protein D52-like 2 (TPD52L2), transcript variant 1, mRN Homo sapiens tumor protein D52-like 2 (TPD52L2), transcript variant 2, mRN NM 199361 NM 199362 Homo sapiens tumor protein D52-like 2 (TPD52L2), transcript variant 3, mRN NM_199363 Homo sapiens tumor protein D52-like 2 (TPD52L2), transcript variant 4, mRN NM_199367 Homo sapiens spastic paraplegia 7, paraplegin (pure and complicated autos NM_199368 Homo sapiens transient receptor potential cation channel, subfamily C, mem NM_199413 Homo sapiens protein regulator of cytokinesis 1 (PRC1), transcript variant 2, NM_199414 Homo sapiens protein regulator of cytokinesis 1 (PRC1), transcript variant 3, NM_199415 Homo sapiens likely ortholog of mouse ubiquitin conjugating enzyme 7 intera NM 199416 Homo sapiens papillary renal cell carcinoma (translocation-associated) (PRC Homo sapiens nuclear protein E3-3 (DKFZP564J0123), transcript variant 5, r NM 199417 NM 199418 Homo sapiens prolylcarboxyp eptidase (angiotensinase C) (PRCP), transcript Homo sapiens polymerase (DNA directed), theta (POLQ), transcript variant 2 NM 199420 Homo sapiens suppressor of cytokine signaling 4 (SOCS4), transcript variant NM 199421 Homo sapiens WW domain containing E3 ubiquitin protein ligase 2 (WWP2) NM 199423 Homo sapiens WW domain containing E3 ubiquitin protein ligase 2 (WWP2) NM 199424 Homo sapiens visual system homeobox 1 homolog, CHX10-like (zebrafish) (NM 199425 Homo sapiens zinc finger protein 64 homolog (mouse) (ZFP64), transcript va NM 199426 Homo sapiens zinc finger protein 64 homolog (mouse) (ZFP64), transcript va NM 199427 Homo sapiens spastic paraplegia 4 (autosomal dominant; spastin) (SPG4), ti NM 199436 Homo sapiens PR domain containing 10 (PRDM10), transcript variant 2, mRl NM 199437 Homo sapiens PR domain containing 10 (PRDM10), transcript variant 3, mRI NM 199438 Homo sapiens PR domain containing 10 (PRDM10), transcript variant 4, mRI NM 199439 NM 199440 Homo sapiens heat shock 60kDa protein 1 (chaperonin) (HSPD1), nuclear gr NM 199441 Homo sapiens zinc finger protein 334 (ZNF334), transcript variant 2, mRNA Homo sapiens coatomer protein complex, subunit epsilon (COPE), transcript NM 199442 Homo sapiens ubiquitin specific protease 4 (proto-oncogene) (USP4), transc NM 199443

NM_199444	Homo sapiens coatomer protein complex, subunit epsilon (COPE), transcript
NM_199450	Homo sapiens zinc finger protein 365 (ZNF365), transcript variant B, mRNA
NM_199451	Homo sapiens zinc finger protein 365 (ZNF365), transcript variant C, mRNA
NM_199452	Homo sapiens zinc finger protein 365 (ZNF365), transcript variant D, mRNA
NM_199453	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 4 (HTR4), transcript
NM_199454	Homo sapiens PR domain containing 16 (PRDM16), transcript variant 2, mRI
NM 199456	Homo sapiens testis/prostate/placenta-expressed protein (TEPP), transcript
NM 199459	Homo sapiens chromosome 10 open reading frame 71 (C10orf71), mRNA
NM 199460	Homo sapiens hypothetical protein LOC283439 (LOC283439), mRNA
NM_199461	Homo sapiens nanos homolog 1 (Drosophila) (NANOS1), mRNA
NM_199462	Homo sapiens receptor interacting protein kinase 5 (RIPK5), transcript variar
NM 199464	Homo sapiens potassium channel regulator (KCNRG), mRNA
NM 199478	Homo sapiens proteolipid protein 1 (Pelizaeus-Merzbacher disease, spastic
NM 199482	Homo sapiens pretenting protein 1 (1012acto-Merzpacher disease, spaste)
	Homo sapiens chromosome 20 open reading frame 24 (C20orf24), transcript
NM_199483	
NM_199484	Homo sapiens chromosome 20 open reading frame 24 (C20orf24), transcript
NM_199485	Homo sapiens chromosome 20 open reading frame 24 (C20orf24), transcript
NM_199487	Homo sapiens chromosome 20 open reading frame 44 (C20orf44), transcript
NM_199511	Homo sapiens steroid sensitive gene 1 (URB), transcript variant 1, mRNA
NM_199512	Homo sapiens steroid sensitive gene 1 (URB), transcript variant 2, mRNA
NM_199513	Homo sapiens chromosome 20 open reading frame 44 (C20orf44), transcript
NM_201222	Homo sapiens melanoma antigen, family D, 2 (MAGED2), transcript variant 3
NM_201224	Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 47 (DDX47), transc
NM_201252	Homo sapiens aflatoxin B1 aldehyde reductase 3 (AFAR3), mRNA
NM_201253	Homo sapiens crumbs homolog 1 (Drosophila) (CRB1), transcript variant 2, r
NM_201259	Homo sapiens homolog of yeast TIM14 (TIM14), transcript variant 2, mRNA
NM_201260	Homo sapiens homolog of yeast TIM14 (TIM14), transcript variant 3, mRNA
NM_201261	Homo sapiens homolog of yeast TIM14 (TIM14), transcript variant 4, mRNA
NM_201262	Homo sapiens DnaJ (Hsp40) homolog, subfamily C, member 12 (DNAJC12),
NM_201263	Homo sapiens tryptophanyl tRNA synthetase 2 (mitochondrial) (WARS2), nu
NM_201264	Homo sapiens neuropilin 2 (NRP2), transcript variant 6, mRNA
NM_201265	Homo sapiens bone marrow stromal cell-derived ubiquitin-like (BMSC-UbP),
NM_201266	Homo sapiens neuropilin 2 (NRP2), transcript variant 1, mRNA
NM_201267	Homo sapiens neuropilin 2 (NRP2), transcript variant 5, mRNA
NM_201268	Homo sapiens membrane-bound transcription factor protease, site 1 (MBTPS
NM_201269	Homo sapiens zinc finger motif enhancer binding protein 2 (Zep-2), transcrip
NM_201274	Homo sapiens myosin phosphatase-Rho interacting protein (M-RIP), mRNA
NM_201277	Homo sapiens calponin 2 (CNN2), transcript variant 2, mRNA
NM_201278	Homo sapiens myotubularin related protein 2 (MTMR2), transcript variant 2, I
NM_201279	Homo sapiens neuropilin 2 (NRP2), transcript variant 3, mRNA
NM_201280	Homo sapiens muted homolog (mouse) (MUTED), mRNA
NM_201281	Homo sapiens myotubularin related protein 2 (MTMR2), transcript variant 3, I
NM_201282	Homo sapiens epidermal growth factor receptor (erythroblastic leukemia vira
NM_201283	Homo sapiens epidermal growth factor receptor (erythroblastic leukemia vira
NM_201284	Homo sapiens epidermal growth factor receptor (erythroblastic leukemia vira
NM_201286	Homo sapiens ubiquitin specific protease 51 (USP51), mRNA
NM_201348	Homo sapiens proline arginine-rich end leucine-rich repeat protein (PRELP),
NM_201349	Homo sapiens docking protein 2, 56kDa (DOK2), transcript variant 2, mRNA
NM_201377	Homo sapiens cancer susceptibility candidate 2 (CASC2), mRNA
NM_201378	Homo sapiens plectin 1, intermediate filament binding protein 500kDa (PLEC
NM_201379	Homo sapiens plectin 1, intermediate filament binding protein 500kDa (PLEC
NM_201380	Homo sapiens plectin 1, intermediate filament binding protein 500kDa (PLEC
NM_201381	Homo sapiens plectin 1, intermediate filament binding protein 500kDa (PLEC
NM_201382	Homo sapiens plectin 1, intermediate filament binding protein 500kDa (PLEC
NM_201383	Homo sapiens plectin 1, intermediate filament binding protein 500kDa (PLEC
NM_201384	Homo saplens plectin 1, intermediate filament binding protein 500kDa (PLEC
NM_201397	Homo sapiens glutathione peroxidase 1 (GPX1), transcript variant 2, mRNA

NM_201398	Homo sapiens FAD-synthetase (PP591), transcript variant 2, mRNA
NM 201399	Homo sapiens DPH2-like 2 (S. cerevisiae) (DPH2L2), transcript variant 2, mF
NM 201400	Homo sapiens hypothetical protein SB153 (SB153), transcript variant 1, mRN
NM_201402	Homo sapiens deubiquitinating enzyme 3 (DUB3), mRNA
NM_201403	Homo sapiens MOB1, Mps One Binder kinase activator-like 2C (yeast) (MOE
NM 201412	Homo sapiens LUC7-like (S. cerevisiae) (LUC7L), transcript variant 2, mRNA
NM 201413	Homo sapiens amyloid beta (A4) pre-cursor protein (protease nexin-II, Alzheii
NM_201414	Homo sapiens amyloid beta (A4) pre-cursor protein (protease nexin-II, Alzheii
NM 201428	Homo capions retigular 2 (PTN2) transports transport to the PNA
NM 201429	Homo sapiens reticulon 3 (RTN3), transcript variant 2, mRNA
NM 201430	Homo sapiens reticulon 3 (RTN3), transcript variant 3, mRNA
_	Homo sapiens reticulon 3 (RTN3), transcript variant 4, mRNA
NM_201431 NM_201432	Homo sapiens Ras association (RalGDS/AF-6) domain family 6 (RASSF6), to
_	Homo sapiens growth arrest-specific 7 (GAS7), transcript variant b, mRNA
NM_201433	Homo sapiens growth arrest-specific 7 (GAS7), transcript variant c, mRNA
NM_201434	Homo sapiens RAB5C, member RAS oncogene family (RAB5C), transcript v.
NM_201435	Homo sapiens testis-specific protein TSP-NY (TSP-NY), transcript variant 2,
NM_201436	Homo sapiens H2A histone family, member V (H2AFV), transcript variant 3, I
NM_201437	Homo sapiens transcription elongation factor A (SII), 1 (TCEA1), transcript ve
NM_201438	Homo sapiens periphilin 1 (PPHLN1), transcript variant 5, mRNA
NM_201439	Homo sapiens periphilin 1 (PPHLN1), transcript variant 3, mRNA
NM_201440	Homo sapiens periphilin 1 (PPHLN1), transcript variant 4, mRNA
NM_201441	Homo sapiens TEA domain family member 4 (TEAD4), transcript variant 2, n
NM_201442	Homo sapiens complement component 1, s subcomponent (C1S), transcript
NM_201443	Homo sapiens TEA domain family member 4 (TEAD4), transcript variant 3, n
NM_201444	Homo sapiens diacylglycerol kinase, alpha 80kDa (DGKA), transcript variant
NM_201445	Homo sapiens diacylglycerol kinase, alpha 80kDa (DGKA), transcript variant
NM_201446	Homo sapiens EGF-like-domain, multiple 7 (EGFL7), transcript variant 2, mR
NM_201453	Homo sapiens dopamine responsive protein (LOC220869), mRNA
NM_201515 NM_201516	Homo sapiens periphilin 1 (PPHLN1), transcript variant 2, mRNA
NM_201517	Homo sapiens H2A histone family, member V (H2AFV), transcript variant 4, I
NM 201520	Homo sapiens H2A histone family, member V (H2AFV), transcript variant 5, I Homo sapiens similar to 1810012H11Rik (FLJ40217), mRNA
NM_201521	Homo sapiens similar to 1010012H111Kik (FLJ40217), mikiya Homo sapiens kinesin-like 8 (KNSL8), transcript variant 1, mRNA
NM 201522	Homo sapiens kinesin-like 8 (KNSL8), transcript variant 2, mRNA
NM_201523	Homo sapiens kinesin-like 8 (KNSL8), transcript variant 2, mRNA
NM 201524	Homo sapiens G protein-coupled receptor 56 (GPR56), transcript variant 2, r
NM_201525	Homo sapiens G protein-coupled receptor 56 (GPR56), transcript variant 3, r
NM_201526	Homo sapiens immunoglobulin superfamily containing leucine-rich repeat (IS
NM 201532	Homo sapiens diacylglycerol kinase, zeta 104kDa (DGKZ), transcript variant
NM_201533	Homo sapiens diacylglycerol kinase, zeta 104kDa (DGKZ), transcript variant
NM 201535	Homo sapiens NDRG family member 2 (NDRG2), transcript variant 1, mRNA
NM 201536	Homo sapiens NDRG family member 2 (NDRG2), transcript variant 3, mRNA
NM_201537	Homo sapiens NDRG family member 2 (NDRG2), transcript variant 4, mRNA
NM 201538	Homo sapiens NDRG family member 2 (NDRG2), transcript variant 5, mRNA
NM 201539	Homo sapiens NDRG family member 2 (NDRG2), transcript variant 6, mRNA
NM 201540	Homo sapiens NDRG family member 2 (NDRG2), transcript variant 7, mRNA
NM_201541	Homo sapiens NDRG family member 2 (NDRG2), transcript variant 8, mRNA
NM 201542	Homo sapiens mediator of RNA polymerase II transcription, subunit 8 homok
NM 201543	Homo sapiens lectin, galactoside-binding, soluble, 8 (galectin 8) (LGALS8), t
NM_201544	Homo sapiens lectin, galactoside-binding, soluble, 8 (galectin 8) (LGALS8), t
NM_201545	Homo sapiens lectin, galactoside-binding, soluble, 8 (galectin 8) (LGALS8), t
NM_201546	Homo sapiens hypothetical protein LOC200008 (LOC200008), mRNA
NM_201548	Homo sapiens retinitis pigmentosa 26 (autosomal recessive) (RP26), mRNA
NM_201550	Homo sapiens leucine rich repeat containing 10 (LRRC10), mRNA
NM_201552	Homo sapiens fibrinogen-like 1 (FGL1), transcript variant 3, mRNA
NM_201553	Homo sapiens fibrinogen-like 1 (FGL1), transcript variant 4, mRNA
NM_201554	Homo sapiens diacylglycerol kinase, alpha 80kDa (DGKA), transcript variant
	• • •

NM_201555	Homo sapiens four and a half LIM domains 2 (FHL2), transcript variant 2, mF
NM_201556	Homo sapiens four and a half LIM domains 2 (FHL2), transcript variant 3, mF
NM_201557	Homo sapiens four and a half LIM domains 2 (FHL2), transcript variant 4, mF
NM_201559	Homo sapiens forkhead box O3A (FOXO3A), transcript variant 2, mRNA
NM 201563	Homo sapiens Fc fragment of IgG, low affinity IIc, receptor for (CD32) (FCGF
NM 201564	Homo sapiens chromosome 10 open reading frame 94 (C10orf94), mRNA
NM 201565	Homo sapiens hypothetical gene supported by BC039313 (LOC284861), mR
NM 201566	Homo sapiens solute carrier family 16 (monocarboxylic acid transporters), mo
NM 201567	Homo sapiens cell division cycle 25A (CDC25A), transcript variant 2, mRNA
NM 201568	Homo sapiens chromosome 1 open reading frame 16 (C1orf16), transcript va
NM 201569	Homo sapiens chromosome 1 open reading frame 16 (C1orf16), transcript ve
NM 201570	Homo sapiens calcium channel, voltage-dependent, beta 2 subunit (CACNB)
NM 201571	Homo sapiens calcium channel, voltage-dependent, beta 2 subunit (CACNB2
NM_201572	Homo sapiens calcium channel, voltage-dependent, beta 2 subunit (CACNB2
NM_201574	Homo sapiens solute carrier family 4, anion exchanger, member 3 (SLC4A3)
NM_201575	Homo sapiens seizure related 6 hormolog (mouse)-like 2 (SEZ6L2), mRNA
NM_201589	Homo sapiens v-maf musculoapone urotic fibrosarcoma oncogene homolog /
NM_201590	Homo sapiens calcium channel, voltage-dependent, beta 2 subunit (CACNB2
NM_201591	Homo sapiens glycoprotein M6A (GPM6A), transcript variant 2, mRNA
NM_201592	Homo sapiens glycoprotein M6A (GPM6A), transcript variant 3, mRNA
NM_201593	Homo sapiens calcium channel, voltage-dependent, beta 2 subunit (CACNB2
NM_201594	Homo sapiens similar to B-cell linker; B cell linker protein (LOC284948), trans
NM_201595	Homo sapiens general transcription factor IIA, 1, 19/37kDa (GTF2A1), transc
NM_201596	Homo sapiens calcium channel, voltage-dependent, beta 2 subunit (CACNB2
NM_201597	Homo sapiens calcium channel, voltage-dependent, beta 2 subunit (CACNB;
NM_201598	Homo sapiens hypothetical protein SB153 (SB153), transcript variant 2, mRN
NM_201599	Homo sapiens zinc finger protein 261 (ZNF261), transcript variant 2, mRNA
NM_201612	Homo sapiens IKK interacting protein (IKIP), transcript variant 2, mRNA
NM_201613	Homo sapiens IKK interacting protein (IKIP), transcript variant 3.1, mRNA
NM_201614	Homo sapiens IKK interacting protein (IKIP), transcript variant 3.2, mRNA
NM_201623	Homo sapiens myeloid inhibitory C-type lectin-like receptor (MICL), transcript
NM_201624	Homo sapiens ubiquitin specific protease 33 (USP33), transcript variant 2, m
NM_201625	Homo sapiens myeloid inhibitory C-type lectin-like receptor (MICL), transcript
NM_201626	Homo sapiens ubiquitin specific protease 33 (USP33), transcript variant 3, m
NM_201627	Homo sapiens tripartite motif-containing 41 (TRIM41), transcript variant 2, ml
NM_201628	Homo sapiens hypothetical protein FLJ43806 (FLJ43806), mRNA
NM_201629	Homo sapiens tight junction protein 2 (zona occludens 2) (TJP2), transcript v
NM_201630	Homo sapiens leucine rich repeat neuronal 5 (LRRN5), transcript variant 2, n
NM_201631	Homo sapiens transglutaminase 5 (TGM5), transcript variant 1, mRNA
NM_201632	Homo sapiens transcription factor 7 (T-cell specific, HMG-box) (TCF7), trans-
NM_201633	Homo sapiens transcription factor 7 (T-cell specific, HMG-box) (TCF7), trans-
NM_201634	Homo sapiens transcription factor 7 (T-cell specific, HMG-box) (TCF7), trans-
NM_201636	Homo sapiens thromboxane A2 receptor (TBXA2R), transcript variant 1, mRt
NM_201647	Homo sapiens STAM binding protein (STAMBP), transcript variant 2, mRNA
NM_201648	Homo sapiens glycine-N-acyltransferase (GLYAT), nuclear gene encoding m
NM_201649	Homo sapiens solute carrier family 6 (neurotransmitter transporter, glycine),
NM_201650	Homo sapiens B7 gene (B7), transcript variant 1, mRNA
NM_201651	Homo sapiens solute carrier family 28 (sodium-coupled nucleoside transport
NM_201653	Homo sapiens eosinophil chemotactic cytokine (CHIA), mRNA
NM_201994	Homo sapiens vesicle-associated membrane protein 4 (VAMP4), transcript v
NM_201995	Homo sapiens splicing factor 1 (SF1), transcript variant 2, mRNA
NM_201997	Homo sapiens splicing factor 1 (SF1), transcript variant 4, mRNA
NM_201998	Homo sapiens splicing factor 1 (SF1), transcript variant 3, mRNA
NM_201999	Homo sapiens E74-like factor 2 (ets domain transcription factor) (ELF2), tran
NM_202000	Homo sapiens SA hypertension-associated homolog (rat) (SAH), transcript v
NM_202001	Homo sapiens excision repair cross-complementing rodent repair deficiency,
NM_202002	Homo sapiens forkhead box M1 (FOXM1), transcript variant 1, mRNA

NM_202003	Homo sapiens forkhead box M1 (FOXM1), transcript variant 3, mRNA
NM_202004	Homo sapiens hemochromatosis type 2 (juvenile) (HFE2), transcript variant (
NM_202467	Homo sapiens regulator of G-protein signalling 19 interacting protein 1 (RGS
NM_202468	Homo sapiens regulator of G-protein signalling 19 interacting protein 1 (RGS
NM_202469	Homo sapiens regulator of G-protein signalling 19 interacting protein 1 (RGS
NM 202470	Homo sapiens regulator of G-protein signalling 19 interacting protein 1 (RGS
NM_202494	Homo sapiens regulator of G-protein signalling 19 interacting protein 1 (RGS
NM 202758	Homo sapiens rTS beta protein (HSRTSBETA), transcript variant 1, mRNA
NM 203281	Homo sapiens BMX non-receptor tyrosine kinase (BMX), mRNA
NM_203282	Homo sapiens zinc finger protein 539 (ZNF539), mRNA
NM_203283	Homo sapiens recombining binding protein suppressor of hairless (Drosophil
NM 203284	Homo sapiens recombining binding protein suppressor of hairless (Drosophil
NM_203285	Homo sapiens poliovirus receptor-related 1 (herpesvirus entry mediator C; no
NM 203286	Homo sapiens poliovirus receptor-related 1 (herpesvirus entry mediator C; ne
NM 203287	Homo sapiens pregnancy specific beta-1-glycoprotein 11 (PSG11), transcript
NM 203288	
_	Homo sapiens retinitis pigmentosa 9 (autosomal dominant) (RP9), mRNA
NM_203289	Homo sapiens POU domain, class 5, transcription factor 1 (POU5F1), transc
NM_203290	Homo sapiens polymerase (RNA) I polypeptide C, 30kDa (POLR1C), transcr
NM_203291	Homo sapiens retinoblastoma binding protein 8 (RBBP8), transcript variant 2
NM_203292	Homo sapiens retinoblastoma binding protein 8 (RBBP8), transcript variant 3
NM_203293	Homo sapiens tripartite motif-containing 7 (TRIM7), transcript variant 1, mRN
NM_203294	Homo sapiens tripartite motif-containing 7 (TRIM7), transcript variant 5, mRN
NM_203295	Homo sapiens tripartite motif-containing 7 (TRIM7), transcript variant 4, mRN
NM_203296	Homo sapiens tripartite motif-containing 7 (TRIM7), transcript variant 3, mRN
NM_203297	Homo sapiens tripartite motif-containing 7 (TRIM7), transcript variant 2, mRN
NM_203298	Homo sapiens coiled-coil-helix-coiled-coil-helix domain containing 1 (CHCHE
NM_203299	Homo sapiens hypothetical protein MGC41945 (MGC41945), mRNA
NM_203301	Homo sapiens F-box protein 33 (FBXO33), mRNA
NM_203302	Homo sapiens similar to RPL23AP7 protein (MGC70863), transcript variant 2
NM_203303	Homo sapiens cellular nucleic acid binding protein-like (LOC389874), mRNA
NM_203304	Homo sapiens ring finger and KH domain containing 1 (RKHD1), mRNA
NM_203305	Homo sapiens hypothetical protein MGC50853 (MGC50853), mRNA
NM_203306	Homo sapiens hypothetical protein MGC39606 (MGC39606), mRNA
NM_203307	Homo sapiens hypothetical protein MGC35402 (MGC35402), mRNA
NM_203308	Homo sapiens ribosomal protein L13A-like (MGC34774), mRNA
NM_203309	Homo sapiens hypothetical MGC48595 (MGC48595), mRNA
NM_203311	Homo sapiens similar to Taxol resistant associated protein 3 (TRAG-3) (LOC
NM_203314	Homo sapiens 3-hydroxybutyrate dehydrogenase (heart, mitochondrial) (BDI
NM_203315	Homo sapiens 3-hydroxybutyrate dehydrogenase (heart, mitochondrial) (BDI
NM_203316	Homo sapiens dolichyl-phosphate (UDP-N-acetylglucosamine) N-acetylgluco
NM_203318	Homo sapiens myosin XVIIIA (MYO18A), transcript variant 2, mRNA
NM_203326	Homo saplens 5-azacytidine induced 2 (AZI2), transcript variant 2, mRNA
NM_203327	Homo sapiens solute carrier family 23 (nucleobase transporters), member 2
NM_203329	Homo sapiens CD59 antigen p18-20 (antigen identified by monoclonal antibo
NM_203330	Homo sapiens CD59 antigen p18-20 (antigen identified by monoclonal antibo
NM_203331	Homo sapiens CD59 antigen p18-20 (antigen identified by monoclonal antibo
NM_203339	Homo sapiens clusterin (complement lysis inhibitor, SP-40,40, sulfated glyco
NM_203341	Homo sapiens 15 kDa selenoprotein (SEP15), transcript variant 2, mRNA
NM_203342	Homo sapiens erythrocyte membrane protein band 4.1 (elliptocytosis 1, RH-I
NM_203343	Homo sapiens erythrocyte membrane protein band 4.1 (elliptocytosis 1, RH-I
NM_203344	Homo sapiens SERTA domain containing 3 (SERTAD3), transcript variant 2,
NM_203346	Homo sapiens high density lipoprotein binding protein (vigilin) (HDLBP), mRt
NM_203347 NM_203348	Homo sapiens MSFL2541 (UNQ2541), mRNA
	Homo sapiens hypothetical MGC50722 (MGC50722), mRNA
NM_203349	Homo sapiens rai-like protein (RaLP), mRNA
NM_203350 NM_203351	Homo sapiens zinc finger protein 265 (ZNF265), transcript variant 1, mRNA Homo sapiens mitogen-activated protein kinase kinase kinase 3 (MAP3K3), t
14141_203331	Tiomo sapions milogerractivated protein killase killase killase 3 (MAPSNS), I

NM_203352	Homo sapiens PDZ and LIM domain 7 (enigma) (PDLIM7), transcript variant
NM_203353	Homo sapiens PDZ and LIM domain 7 (enigma) (PDLIM7), transcript variant
NM_203354	Homo sapiens meningioma expressed antigen 6 (coiled-coil proline-rich) (MC
NM_203355	Homo sapiens meningioma expressed antigen 6 (coiled-coil proline-rich) (MC
NM 203356	Homo sapiens meningioma expressed antigen 6 (coiled-coil proline-rich) (MC
NM 203357	Homo sapiens meningioma expressed antigen 6 (coiled-coil proline-rich) (MC
NM 203364	Homo sapiens membrane component, chro mosome 11, surface marker 1 (M
NM 203365	Homo sapiens Ras association (RalGDS/AF-6) and pleckstrin homology dom
NM 203370	Homo sapiens similar to RIKEN cDNA 6530418L21 (LOC389119), mRNA
NM 203371	Homo sapiens similar to RIKEN cDNA 1110018M03 (LOC387758), mRNA
NM_203372	Homo sapiens acyl-CoA synthetase long-chain family member 3 (ACSL3), tra
NM 203373	Homo sapiens hypothetical protein LOC283807 (LOC283807), mRNA
NM 203374	Homo saplens hypothetical plotein Ecocososo (Ecocosoo), mixina Homo saplens similar to zinc finger protein (LOC147808), mRNA
_	
NM_203375	Homo sapiens hypothetical gene supported by BC001801 (LOC284912), mR
NM_203376	Homo sapiens similar to RIKEN cDNA 493O429O20 (LOC388730), mRNA
NM_203377	Homo sapiens myoglobin (MB), transcript variant 2, mRNA
NM_203378	Homo sapiens myoglobin (MB), transcript variant 3, mRNA
NM_203379	Homo sapiens acyl-CoA synthetase long-ch ain family member 5 (ACSL5), tra
NM_203380	Homo sapiens acyl-CoA synthetase long-chain family member 5 (ACSL5), tra
NM_203381	Homo sapiens protein for MGC71805 (MGC71805), mRNA
NM_203382	Homo sapiens alpha-methylacyl-CoA racennase (AMACR), transcript variant
NM_203383	Homo sapiens ribonuclease/angiogenin inh i bitor (RNH), transcript variant 2,
NM_203384	Homo sapiens ribonuclease/angiogenin inhībitor (RNH), transcript variant 3,
NM_203385	Homo sapiens ribonuclease/angiogenin inhībitor (RNH), transcript variant 4, ı
NM_203386	Homo sapiens ribonuclease/angiogenin inhibitor (RNH), transcript variant 5,
NM_203387	Homo sapiens ribonuclease/angiogenin inh i bitor (RNH), transcript variant 6, i
NM_203388	Homo sapiens ribonuclease/angiogenin inhībitor (RNH), transcript variant 7,
NM_203389	Homo sapiens ribonuclease/angiogenin inhībitor (RNH), transcript variant 8,
NM_203390	Homo sapiens similar to RIKEN cDNA 3000004N20 (LOC389677), mRNA
NM_203391	Homo sapiens glycerol kinase (GK), transcript variant 1, mRNA
NM_203392	Homo sapiens hypothetical gene supported by BC031617 (LOC284123), mR
NM_203393	Homo sapiens hypothetical gene supported by BC031661 (LOC389458), mR
NM_203394	Homo sapiens E2F transcription factor 7 (E2F7), mRNA
NM_203395	Homo sapiens iodotyrosine dehalogenase 1 (DEHAL1), mRNA
NM_203399	Homo sapiens stathmin 1/oncoprotein 18 (STMN1), transcript variant 2, mRN
NM_203400	Homo sapiens similar to candidate mediato r of the p53-dependent G2 arrest
NM_203401	Homo sapiens stathmin 1/oncoprotein 18 (STMN1), transcript variant 1, mRN
NM_203402	Homo sapiens similar to CG10671-like (LOC161247), mRNA
NM_203403	Homo sapiens chromosome 9 open reading frame 150 (C9orf150), mRNA
NM_203405	Homo sapiens similar to RIKEN cDNA 2310002B14 (LOC388818), mRNA
NM_203406	Homo sapiens similar to metallo-beta-lactarnase superfamily protein (LOC15
NM_203407	Homo sapiens similar to CG32656-PA (LOC340602), mRNA
NM_203408	Homo sapiens similar to hypothetical protein FLJ35782 (LOC158724), mRN/
NM_203411	Homo sapiens similar to RIKEN cDNA 2600017H02 (LOC92162), mRNA
NM_203412	Homo sapiens similar to RIKEN cDNA 493O 522D07 (LOC164153), mRNA
NM_203413	Homo sapiens S-phase 2 protein (DERP6), mRNA
NM_203414	Homo sapiens S-phase 2 protein (DERP6), mRNA
NM_203415	Homo sapiens S-phase 2 protein (DERP6), mRNA
NM_203416	Homo sapiens CD163 antigen (CD163), transcript variant 2, mRNA
NM_203417	Homo sapiens Down syndrome critical region gene 1 (DSCR1), transcript var
NM_203418	Homo sapiens Down syndrome critical region gene 1 (DSCR1), transcript var
NM_203419	Homo sapiens hypothetical protein LOC286016 (LOC286016), mRNA
NM_203422	Homo sapiens similar to hypothetical protein (LOC221091), mRNA
NM_203423	Homo sapiens hypothetical gene supported by BC031673 (LOC389199), mR
NM_203424	Homo sapiens hypothetical protein MGC50809 (LOC389123), mRNA
NM_203425	Homo sapiens hypothetical gene supported by BC046200 (LOC388407), mR
NM_203426	Homo sapiens hypothetical protein FLJ90297 (LOC388152), mRNA

NM_203428	Homo sapiens Down syndrome critical region gene 8 (DSCR8), transcript val
NM_203429	Homo sapiens Down syndrome critical region gene 8 (DSCR8), transcript vai
NM_203430	Homo sapiens peptidylprolyl isomerase A (cyclophilin A) (PPIA), transcript va
NM_203431	Homo sapiens peptidylprolyl isomerase A (cyclophilin A) (PPIA), transcript va
NM_203433	Homo sapiens Down syndrome critical region gene 2 (DSCR2), transcript val
NM 203434	Homo sapiens similar to RIKEN cDNA 2610524G09 (LOC389792), mRNA
NM_203436	Homo sapiens achaete-scute complex-like 4 (Drosophila) (ASCL4), mRNA
NM_203437	Homo sapiens aftiphilin protein (AFTIPHILIN), transcript variant 1, mRNA
NM_203438	Homo sapiens chromosome 10 open reading frame 4 (C10orf4), transcript νε
NM_203439	Homo sapiens chromosome 10 open reading frame 4 (C10orf4), transcript ve
NM_203440	Homo sapiens chromosome 10 open reading frame 4 (C10orf4), transcript va
NM_203441	Homo sapiens chromosome 10 open reading frame 4 (C10orf4), transcript ve
NM_203444	Homo sapiens ATP-binding cassette, sub-family B (MDR/TAP), member 9 (A
NM_203445	Homo sapiens ATP-binding cassette, sub-family B (MDR/TAP), member 9 (A
NM_203446	Homo sapiens synaptojanin 1 (SYNJ1), transcript variant 2, mRNA
NM_203447	Homo sapiens dedicator of cytokinesis 8 (DOCK8), mRNA
NM_203448	Homo sapiens hypothetical protein MGC21881 (MGC21881), mRNA
NM_203451	Homo sapiens hypothetical LOC400120 (LOC400120), mRNA
NM_203452	Homo sapiens hypothetical protein LOC403312 (MGC39545), mRNA
NM_203453	Homo sapiens hypothetical LOC403313 (LOC403313), mRNA
NM_203454	Homo sapiens hypothetical protein MGC26594 (MGC26594), mRNA
NM_203456	Homo sapiens peptidylprolyl isomerase E (cyclophilin E) (PPIE), transcript va
NM_203457	Homo sapiens peptidylprolyl isomerase E (cyclophilin E) (PPIE), transcript va
NM_203458	Homo sapiens similar to NOTCH2 protein (N2N), mRNA
NM_203459	Homo sapiens KIAA1078 protein (KIAA1078), mRNA
NM_203462	Homo sapiens PP784 protein (PP784), transcript variant 2, mRNA
NM_203463	Homo sapiens LAG1 longevity assurance homolog 6 (S. cerevisiae) (LASS6)
NM_203466	Homo sapiens peptidylprolyl isomerase (cyclophilin) like 5 (PPIL5), transcript
NM_203467	Homo sapiens peptidylprolyl isomerase (cyclophilin) like 5 (PPIL5), transcript
NM_203468	Homo sapiens ectonucleoside triphosphate diphosphohydrolase 2 (ENTPD2)
NM_203471	Homo sapiens lectin, galactoside-binding, soluble, 14 (LGALS14), transcript
NM_203472	Homo sapiens selenoprotein S (SELS), transcript variant 1, mRNA
NM_203473	Homo sapiens porcupine homolog (Drosophila) (PORCN), transcript variant I
NM_203474	Homo sapiens porcupine homolog (Drosophila) (PORCN), transcript variant (
NM_203475	Homo sapiens porcupine homolog (Drosophila) (PORCN), transcript variant l
NM_203476	Homo sapiens porcupine homolog (Drosophila) (PORCN), transcript variant I
NM_203477	Homo sapiens similar to RPL23AP7 protein (MGC70863), transcript variant 1
NM_203481	Homo sapiens hypothetical LOC403340 (MGC70870), mRNA
NM_203486	Homo sapiens delta-like 3 (Drosophila) (DLL3), transcript variant 2, mRNA
NM_203487	Homo sapiens protocadherin 9 (PCDH9), transcript variant 1, mRNA
NM_203488	Homo sapiens acylphosphatase 1, erythrocyte (common) type (ACYP1), tran
NM_203494	Homo sapiens ubiquitin specific protease 50 (USP50), mRNA
NM_203495	Homo sapiens COMM domain containing 6 (COMMD6), transcript variant 2, 1
NM_203497	Homo sapiens COMM domain containing 6 (COMMD6), transcript variant 1, I
NM_203499	
NM_203500	Homo sapiens kelch-like ECH-associated protein 1 (KEAP1), transcript varia
NM_203503	
NM_203504	
NM_203505	
NM_203506	
NM_203510	
NM_205543	Homo sapiens amyotrophic lateral sclerosis 2 (juvenile) chromosome region,
NM_205545	Homo sapiens RGTR430 (UNQ430), mRNA
NM_205548	
NM_205767	
NM_205768	
NM_205833	nomo sapiens immunogiobulin superiamily, member i (1991-1), transcript va

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NM 205834
            Homo sapiens liver-specific bHLH-Zip transcription factor (LISCH7), transcription
NM 205835
            Homo sapiens liver-specific bHLH-Zip transcription factor (LISCH7), transcription
NM 205836
            Homo sapiens F-box protein 38 (FBXO38), transcript variant 2, mRNA
NM 205837
            Homo sapiens leukocyte specific transcript 1 (LST1), transcript variant 2, mR
NM_205838
            Homo sapiens leukocyte specific transcript 1 (LST1), transcript variant 3, mR
            Homo sapiens leukocyte specific transcript 1 (LST1), transcript variant 4, mR
NM_205839
NM_205840
            Homo sapiens leukocyte specific transcript 1 (LST1), transcript variant 5, mR
NM 205841
            Homo sapiens protease inhibitor H (MGC21394), mRNA
            Homo sapiens NCK-associated protein 1 (NCKAP1), transcript variant 2, mR
NM 205842
            Homo sapiens nuclear factor I/C (CCAAT-binding transcription factor) (NFIC)
NM 205843
NM 205845
            Homo sapiens aldo-keto reductase family 1, member C2 (dihydrodiol dehydro
NM 205846
            Homo sapiens hypothetical protein MGC21644 (MGC21644), transcript varia
NM 205847
            Homo sapiens GDP-mannose pyrophosphorylase A (GMPPA), transcript vari
NM 205848
            Homo sapiens synaptotagmin VI (SYT6), mRNA
NM 205849
            Homo sapiens family with sequence similarity 9, member B (FAM9B), mRNA
NM 205850
            Homo sapiens solute carrier family 24, member 5 (SLC24A5), mRNA
NM 205852
            Homo sapiens macrophage antigen h (UNQ5782), mRNA
NM_205853
            Homo sapiens musculoskeletal, embryonic nuclear protein 1 (MUSTN1), mR
NM_205854
            Homo sapiens GSGL541 (UNQ541), mRNA
            Homo sapiens HWKM1940 (UNQ1940), mRNA
NM 205855
            Homo sapiens PNPK6288 (LOC389852), mRNA
NM 205856
NM 205857
            Homo sapiens FBI4 protein (FBI4), mRNA
NM 205858 Homo sapiens neuromedin B (NMB), transcript variant 2, mRNA
            Homo sapiens olfactory receptor, family 2, subfamily K, member 2 (OR2K2),
NM 205859
NM 205860 Homo sapiens nuclear receptor subfamily 5, group A, member 2 (NR5A2), tra
NM 205861
            Homo sapiens dehydrodolichyl diphosphate synthase (DHDDS), transcript va
NM 205862 Homo sapiens UDP glycosyltransferase 1 family, polypeptide A6 (UGT1A6),
NM 205863 Homo sapiens amyotrophic lateral sclerosis 2 (juvenile) chromosome region,
NM 205864 Homo sapiens cancer/testis antigen 3 (CTAG3), transcript variant 2, mRNA
NM 206538 Homo sapiens hypothetical protein LOC284361 (LOC284361), transcript vari
NM 206539 Homo sapiens EGF-like-domain, multiple 9 (EGFL9), transcript variant 2, mR
NM 206594
            Homo sapiens estrogen-related receptor gamma (ESRRG), transcript variant
NM_206595 Homo sapiens estrogen-related receptor gamma (ESRRG), transcript variant
NM_206808
            Homo sapiens citrate lyase beta like (CLYBL), transcript variant 2, mRNA
NM_206809
            Homo sapiens myelin oligodendrocyte glycoprotein (MOG), transcript variant
            Homo sapiens myelin oligodendrocyte glycoprotein (MOG), transcript variant
NM_206810
NM_206811
            Homo sapiens myelin oligodendrocyte glycoprotein (MOG), transcript variant
NM_206812
            Homo sapiens myelin oligodendrocyte glycoprotein (MOG), transcript variant
NM 206813
            Homo sapiens myelin oligodendrocyte glycoprotein (MOG), transcript variant
NM 206814
            Homo sapiens myelin oligodendrocyte glycoprotein (MOG), transcript variant
            Homo sapiens osteoclast-associated receptor (OSCAR), transcript variant 2,
NM_206817
NM_206818
            Homo sapiens osteoclast-associated receptor (OSCAR), transcript variant 1,
            Homo sapiens myosin binding protein C, slow type (MYBPC1), transcript vari
NM 206819
            Homo sapiens myosin binding protein C, slow type (MYBPC1), transcript vari
NM_206820
NM 206821
            Homo sapiens myosin binding protein C, slow type (MYBPC1), transcript vari
            Homo sapiens vitamin K epoxide reductase complex, subunit 1 (VKORC1), tı
NM 206824
NM 206825
            Homo sapiens nucleostemin (NS), transcript variant 2, mRNA
            Homo sapiens nucleostemin (NS), transcript variant 3, mRNA
NM 206826
NM 206827
            Homo sapiens RAS-like, family 11, member A (RASL11A), mRNA
            Homo sapiens NACHT, leucine rich repeat and PYD containing 7 (NALP7), to
NM 206828
NM 206831
            Homo sapiens zinc finger, CSL domain containing 2 (ZCSL2), mRNA
            Homo sapiens AWKS9372 (UNQ9372), mRNA
NM 206832
NM 206833
            Homo sapiens cortexin 1 (CTXN1), mRNA
            Homo sapiens chromosome 6 open reading frame 201 (C6orf201), mRNA
NM 206834
            Homo sapiens TNF receptor-associated factor 7 (TRAF7), transcript variant 2
NM 206835
            Homo sapiens peroxisomal D3,D2-enoyl-CoA isomerase (PECI), transcript vi
NM 206836
            Homo sapiens oxidored-nitro domain-containing protein (NOR1), transcript vi
NM 206837
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NM 206838	Homo sapiens similar to Hypothetical protein CBG21647 (LOC390511), mRN
NM 206839	Homo sapiens mortality factor 4 like 1 (MORF4L1), transcript variant 2, mRN.
NM 206840	Homo sapiens nuclear VCP-like (NVL), transcript variant 2, mRNA
NM 206841	Homo sapiens Fraser syndrome 1 (FRAS1), transcript variant 2, mRNA
NM 206852	Homo sapiens reticulon 1 (RTN1), transcript variant 3, mRNA
NM 206853	Homo sapiens quaking homolog, KH domain RNA binding (mouse) (QKI), tra
NM_206854	Homo sapiens quaking homolog, KH domain RNA binding (mouse) (QKI), tra
NM 206855	Homo sapiens quaking homolog, KH domain RNA binding (mouse) (QKI), tra
NM 206857	Homo sapiens reticulon 1 (RTN1), transcript variant 2, mRNA
NM 206858	Homo sapiens similar to protein phosphatase 1, regulatory (inhibitor) subunit
NM_206860	Homo sapiens transforming, acidic coiled-coil containing protein 2 (TACC2),
NM 206861	Homo sapiens transforming, acidic coiled-coil containing protein 2 (TACC2),
NM 206862	Homo sapiens transforming, acidic coiled-coil containing protein 2 (TACC2),
NM 206866	Homo sapiens BTB and CNC homology 1, basic leucine zipper transcription
NM 206873	Homo sapiens protein phosphatase 1, catalytic subunit, alpha isoform (PPP1
NM 206876	Homo sapiens protein phosphatase 1, catalytic subunit, beta isoform (PPP10
NM_206877	Homo sapiens protein phosphatase 1, catalytic subunit, beta isoform (PPP10
NM 206880	Homo saplens olfactory receptor, family 2, subfamily V, member 2 (OR2V2),
NM 206883	Homo sapiens prestin (motor protein) (PRES), transcript variant b, mRNA
NM_206884	Homo sapiens prestin (motor protein) (PRES), transcript variant c, mRNA
NM 206885	Homo sapiens prestin (motor protein) (PRES), transcript variant d, mRNA
NM_206886	Homo sapiens sarcoma antigen NY-SAR-41 (NY-SAR-41), mRNA
NM_206887	Homo sapiens Down syndrome cell adhesion molecule (DSCAM), transcript
NM_206889	Homo sapiens chromosome 21 open reading frame 106 (C21orf106), transci
NM_206890	Homo sapiens chromosome 21 open reading frame 106 (C21orf106), transci
NM_206891	Homo sapiens chromosome 21 open reading frame 106 (C21orf106), transci
NM_206892	Homo sapiens malate dehydrogenase 1B, NAD (soluble) (MDH1B), mRNA
NM_206893	Homo sapiens membrane-spanning 4-domains, subfamily A, member 10 (M\$
NM_206894	Homo sapiens hypothetical protein LOC388536 (MGC62100), mRNA
NM_206895	Homo sapiens ASCL830 (UNQ830), mRNA
NM_206898	Homo sapiens chromosome 21 open reading frame 61 (C21orf61), transcript
NM_206900	Homo sapiens reticulon 2 (RTN2), transcript variant 2, mRNA
NM_206901	Homo sapiens reticulon 2 (RTN2), transcript variant 3, mRNA
NM_206902	Homo sapiens reticulon 2 (RTN2), transcript variant 4, mRNA
NM_206907	Homo sapiens protein kinase, AMP-activated, alpha 1 catalytic subunit (PRK
NM_206908	Homo sapiens chromosome 6 open reading frame 216 (C6orf216), transcript
NM_206909	Homo sapiens pleckstrin and Sec7 domain containing 3 (PSD3), transcript va
NM_206910	Homo sapiens chromosome 6 open reading frame 216 (C6orf216), transcript
NM_206911	Homo sapiens chromosome 6 open reading frame 216 (C6orf216), transcript
NM_206912	Homo sapiens chromosome 6 open reading frame 216 (C6orf216), transcript
NM_206914	Homo sapiens hepatocellularcarcinoma-associated antigen HCA557a (DKFZ
NM_206915	Homo sapiens nerve growth factor receptor (TNFRSF16) associated protein
NM_206917	Homo sapiens nerve growth factor receptor (TNFRSF16) associated protein
NM_206918	Homo sapiens chromosome 14 open reading frame 66 (C14orf66), mRNA
NM_206919	Homo sapiens ADP-ribosylation factor-like 9 (ARL9), mRNA
NM_206920	Homo sapiens apical early endosomal glycoprotein precursor (AEGP), mRN/
NM_206921	Homo sapiens chromosome 6 open reading frame 204 (C6orf204), mRNA
NM_206922	Homo sapiens thymus LIM protein TLP-A (TLP), mRNA
NM_206923	Homo sapiens YY2 transcription factor (YY2), mRNA
NM_206925	Homo sapiens carbonic anhydrase XII (CA12), transcript variant 2, mRNA
NM_206926	Homo sapiens selenoprotein N, 1 (SEPN1), transcript variant 2, mRNA
NM_206927	Homo sapiens synaptotagmin-like 2 (SYTL2), transcript variant c, mRNA
NM_206928	Homo sapiens synaptotagmin-like 2 (SYTL2), transcript variant d, mRNA
NM_206929	Homo sapiens synaptotagmin-like 2 (SYTL2), transcript variant e, mRNA
NM_206930	Homo sapiens synaptotagmin-like 2 (SYTL2), transcript variant f, mRNA
NM_206930 NM_206933 NM_206937	

NM_206938	Homo sapiens membrane-spanning 4-domains, subfamily A, member 7 (MS
NM_206939	Homo sapiens membrane-spanning 4-domains, subfamily A, member 7 (MS
NM_206940	Homo sapiens membrane-spanning 4-domains, subfamily A, member 7 (MS
NM_206943	Homo sapiens latent transforming growth factor beta binding protein 1 (LTBF
NM_206944	Homo sapiens transient receptor potential cation channel, subfamily M, mem
NM 206945	Homo sapiens transient receptor potential cation channel, subfamily M, mem
NM 206946	Homo sapiens transient receptor potential cation channel, subfamily M, mem
NM 206947	Homo sapiens transient receptor potential cation channel, subfamily M, mem
NM 206948	Homo sapiens transient receptor potential cation channel, subfamily M, mem
NM_206949	Homo sapiens family with sequence similarity 14, member B (FAM14B), mR1
NM 206953	Homo sapiens preferentially expressed antigen in melanoma (PRAME), trans
NM 206954	Homo sapiens preferentially expressed antigen in melanoma (PRAME), trans
NM 206955	Homo sapiens preferentially expressed antigen in melanoma (PRAME), trans
NM 206956	Homo sapiens preferentially expressed antigen in melanoma (PRAME), trans
NM 206961	Homo sapiens leukocyte tyrosine kinase (LTK), transcript variant 2, mRNA
NM 206962	Homo sapiens HMT1 hnRNP methyltransferase-like 1 (S. cerevisiae) (HRMT
NM 206963	Homo sapiens retinoic acid receptor responder (tazarotene induced) 1 (RARI
NM 206964	Homo sapiens feathful add receptor responder (tazantene induced) i (transcribtomo sapiens family with sequence similarity 3, member B (FAM3B), transcri
_	
NM_206965	Homo sapiens formiminotransferase cyclodeaminase (FTCD), transcript variations sapiens similar to AVLV472 (MGC23985), mRNA
NM_206966	
NM_206967 NM_206994	Homo sapiens MGC17624 protein (MGC17624), mRNA Homo sapiens gonadotropin-releasing hormone (type 2) receptor 2 (GNRHR
NM 206996	Homo sapiens projection protein PF6 (PF6), mRNA
NM_206997	Homo sapiens G protein-coupled receptor 152 (GPR152), mRNA
_	Homo sapiens secretoglobin family 1D member 4 (SCGB1D4), mRNA
NM_206998	Homo sapiens secretoglobin raininy 15 member 4 (3005154), mrtta Homo sapiens KIAA1007 protein (KIAA1007), transcript variant 2, mRNA
NM_206999	
NM_207002	Homo sapiens BCL2-like 11 (apoptosis facilitator) (BCL2L11), transcript varia
NM_207003	Homo sapiens BCL2-like 11 (apoptosis facilitator) (BCL2L11), transcript variety
NM_207005	Homo sapiens upstream transcription factor 1 (USF1), transcript variant 2, m
NM_207006	Homo sapiens hypothetical protein MGC14128 (BJ-TSA-9), transcript variant
NM_207007	Homo sapiens chemokine (C-C motif) ligand 4-like 1, telomeric (CCL4L1), ml
NM_207009	Homo sapiens family with sequence similarity 45, member A (FAM45A), mRt
NM_207012 NM 207013	Homo sapiens adaptor-related protein complex 3, mu 1 subunit (AP3M1), tra Homo sapiens transcription elongation factor B (SIII), polypeptide 2 (18kDa, -
_	
NM_207014	Homo sapiens Nypothetical protein FLJ23129 (FLJ23129), transcript variant:
NM_207015	Homo sapiens N-acetylated alpha-linked acidic dipeptidase 2 (NAALADL2), I
NM_207032	Homo sapiens endothelin 3 (EDN3), transcript variant 2, mRNA
NM_207033	Homo sapiens endothelin 3 (EDN3), transcript variant 3, mRNA
NM_207034	Homo sapiens endothelin 3 (EDN3), transcript variant 4, mRNA
NM_207035	Homo sapiens NPD014 protein (NPD014), transcript variant 1, mRNA
NM_207036	Homo sapiens transcription factor 12 (HTF4, helix-loop-helix transcription fac Homo sapiens transcription factor 12 (HTF4, helix-loop-helix transcription fac
NM_207037	
NM_207038	Homo sapiens transcription factor 12 (HTF4, helix-loop-helix transcription fac
NM_207040	Homo sapiens transcription factor 12 (HTF4, helix-loop-helix transcription fac
NM_207042	Homo sapiens endosulfine alpha (ENSA), transcript variant 1, mRNA
NM_207043	Homo sapiens endosulfine alpha (ENSA), transcript variant 2, mRNA
NM_207044	Homo sapiens endosulfine alpha (ENSA), transcript variant 4, mRNA
NM_207045	Homo sapiens endosulfine alpha (ENSA), transcript variant 5, mRNA
NM_207046	Homo sapiens endosulfine alpha (ENSA), transcript variant 6, mRNA
NM_207047	Homo sapiens endosulfine alpha (ENSA), transcript variant 7, mRNA
NM_207102	Homo sapiens F-box and WD-40 domain protein 12 (FBXW12), mRNA
NM_207103	Homo sapiens DTFT5783 (UNQ5783), mRNA
NM_207106	Homo sapiens three prime repair exonuclease 2 (TREX2), transcript variant in
NM_207107	Homo sapiens three prime repair exonuclease 2 (TREX2), transcript variant (
NM_207108	Homo sapiens astrotactin (ASTN), transcript variant 2, mRNA
NM_207111	Homo sapiens TRIAD3 protein (TRIAD3), transcript variant 1, mRNA Homo sapiens hydroxyacylglutathione hydrolase-like (HAGHL), transcript var
NM_207112	riomo sapiens nyuroxyacyigidiaunone nyurorase-like (ПАОПL), tianscript var

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NM_207113 Homo sapiens solute carrier family 37 (glycerol-3-phosphate transporter), me
NM 207115
             Homo sapiens zinc finger protein 580 (ZNF580), transcript variant 2, mRNA
NM 207116
             Homo sapiens TRIAD3 protein (TRIAD3), transcript variant 2, mRNA
NM 207117
             Homo sapiens chromosome 14 open reading frame 68 (C14orf68), mRNA
NM 207118
             Homo sapiens general transcription factor IIH, polypeptide 5 (GTF2H5), mRN
NM 207119
             Homo sapiens leucine rich repeat containing 20 (LRRC20), transcript variant
NM_207121
             Homo sapiens chromosome 20 open reading frame 55 (C20orf55), transcript
NM 207122
             Homo sapiens exostoses (multiple) 2 (EXT2), transcript variant 2, mRNA
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             Homo sapiens GRB2-associated binding protein 1 (GAB1), transcript variant
             Homo sapiens polyamine oxidase (exo-N4-amino) (PAOX), transcript variant
NM_207125
NM_207126
             Homo sapiens polyamine oxidase (exo-N4-amino) (PAOX), transcript variant
NM 207127
             Homo sapiens polyamine oxidase (exo-N4-amino) (PAOX), transcript variant
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             Homo sapiens polyamine oxidase (exo-N4-amino) (PAOX), transcript variant
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             Homo sapiens polyamine oxidase (exo-N4-amino) (PAOX), transcript variant
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             Homo sapiens endosulfine alpha (ENSA), transcript variant 8. mRNA
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             Homo sapiens GCIP-interacting protein p29 (P29), transcript variant 2, mRN/
NM_207171
             Homo sapiens pogo transposable element with ZNF domain (POGZ), transcr
NM_207172
             Homo sapiens G protein-coupled receptor 154 (GPR154), transcript variant 1
NM 207173
             Homo sapiens G protein-coupled receptor 154 (GPR154), transcript variant 2
NM 207174
             Homo sapiens ATP-binding cassette, sub-family G (WHITE), member 1 (ABC
NM_207181
             Homo sapiens nephronophthisis 1 (juvenile) (NPHP1), transcript variant 2, m
NM 207186
             Homo sapiens olfactory receptor, family 10, subfamily A, member 4 (OR10A4
             Homo sapiens bromodomain, testis-specific (BRDT), transcript variant 1, mR
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NM 207191
             Homo sapiens a disintegrin and metalloproteinase domain 15 (metargidin) (A
NM 207194 Homo sapiens a disintegrin and metalloproteinase domain 15 (metargidin) (A
NM 207195 Homo sapiens a disintegrin and metalloproteinase domain 15 (metargidin) (A
NM 207196
             Homo sapiens a disintegrin and metalloproteinase domain 15 (metargidin) (A
NM 207197 Homo sapiens a disintegrin and metalloproteinase domain 15 (metargidin) (A
NM 207283 Homo sapiens AAA1 protein (AAA1), transcript variant IX, mRNA
NM_207284 Homo sapiens AAA1 protein (AAA1), transcript variant II, mRNA
NM_207285 Homo sapiens AAA1 protein (AAA1), transcript variant III, mRNA
NM_207286 Homo sapiens AAA1 protein (AAA1), transcript variant IV, mRNA
NM 207287 Homo sapiens AAA1 protein (AAA1), transcript variant V, mRNA
NM_207288 Homo sapiens AAA1 protein (AAA1), transcript variant VI, mRNA
NM_207289 Homo sapiens AAA1 protein (AAA1), transcript variant VII, mRNA
NM_207290 Homo sapiens AAA1 protein (AAA1), transcript variant VIII, mRNA
NM 207291
            Homo sapiens upstream transcription factor 2, c-fos interacting (USF2), trans
NM 207292 Homo sapiens muscleblind-like (Drosophila) (MBNL1), transcript variant 2, m
NM 207293
             Homo sapiens muscleblind-like (Drosophila) (MBNL1), transcript variant 3, m
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             Homo sapiens muscleblind-like (Drosophila) (MBNL1), transcript variant 4, m
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             Homo sapiens muscleblind-like (Drosophila) (MBNL1), transcript variant 5, m
NM_207296
             Homo sapiens muscleblind-like (Drosophila) (MBNL1), transcript variant 6, m
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             Homo sapiens muscleblind-like (Drosophila) (MBNL1), transcript variant 7, m
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             Homo sapiens attractin-like 1 (ATRNL1), mRNA
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NM 207304
             Homo sapiens muscleblind-like 2 (Drosophila) (MBNL2), transcript variant 3,
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            Homo sapiens forkhead box D4 (FOXD4), mRNA
NM 207306
            Homo sapiens KIAA0495 (KIAA0495), mRNA
NM 207307
            Homo sapiens hypothetical protein LOC90288 (LOC90288), mRNA
NM_207308 Homo sapiens nuclear pore membrane glycoprotein 210-like (LOC91181), m
NM_207309 Homo sapiens UDP-N-acteylglucosamine pyrophosphorylase 1-like 1 (UAP1
NM 207310
            Homo sapiens hypothetical protein DKFZp434E2321 (DKFZp434E2321), mF
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             Homo sapiens hypothetical protein LOC92558 (LOC92558), mRNA
NM 207312 Homo sapiens similar to alpha tubulin (LOC112714), mRNA
NM_207313 Homo sapiens hypothetical protein LOC124842 (LOC124842), mRNA
NM 207314 Homo sapiens VNFT9373 (UNQ9373), mRNA
NM 207315 Homo sapiens hypothetical protein LOC129607 (LOC129607), mRNA
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NM_207320	Homo sapiens FLJ25831 protein (FLJ25831), mRNA
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NM_207322	Homo sapiens hypothetical LOC145741 (LOC145741), mRNA
NM_207323	Homo sapiens hypothetical protein DKFZp667M2411 (DKFZp667M2411), ml
NM_207324	Homo sapiens hypothetical protein LOC147650 (LOC147650), mRNA
NM_207325	Homo sapiens hypothetical protein LOC147991 (LOC147991), mRNA
NM_207326	Homo sapiens hypothetical protein LOC149134 (LOC149134), mRNA
NM_207327	Homo sapiens similar to RIKEN cDNA 2210021J22 (LOC150383), mRNA
NM_207328	Homo sapiens hypothetical protein LOC150763 (LOC150763), mRNA
NM_207329	Homo sapiens myeloid-associated differentiation marker-like (MYADML), mR
NM_207330	Homo sapiens hypothetical protein LOC152519 (LOC152519), mRNA
NM_207331	Homo sapiens hypothetical protein LOC153561 (LOC153561), mRNA
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NM_207334	Homo sapiens family with sequence similarity 43, member B (FAM43B), mRt
NM_207335	Homo sapiens FLJ46299 protein (FLJ46299), mRNA
NM_207336	Homo sapiens likely ortholog of mouse zinc finger protein EZI (EZI), mRNA
NM_207337	Homo sapiens hypothetical protein LOC196394 (LOC196394), mRNA
NM_207338	Homo sapiens likely ortholog of mouse klotho lactase-phlorizin hydrolase rela
NM_207339	Homo sapiens similar to PAGE-5 protein (MGC62094), mRNA
NM_207340	Homo sapiens hypothetical protein LOC254359 (LOC254359), mRNA
NM_207341	Homo sapiens similar to ZP1 precursor (MGC87693), mRNA
NM_207343	Homo sapiens hypothetical protein DKFZp547C195 (DKFZp547C195), mRN
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NM_207346	Homo sapiens likely homolog of yeast SEN54 (SEN54L), mRNA
NM_207347	Homo sapiens chromosome 18 open reading frame 30 (C18orf30), mRNA
NM_207348	Homo sapiens hypothetical protein LOC284723 (LOC284723), mRNA
NM_207349	Homo sapiens hypothetical protein LOC284739 (LOC284739), mRNA
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NM_207353	Homo sapiens ubiquitin-conjugating enzyme UbcM2 (LOC286480), mRNA
NM_207354	Homo sapiens hypothetical protein LOC338692 (LOC338692), mRNA
NM_207355	Homo sapiens protein expressed in prostate, ovary, testis, and placenta (PO
NM_207356	Homo sapiens hypothetical protein LOC339448 (LOC339448), mRNA
NM_207357	Homo sapiens hypothetical protein LOC339524 (LOC339524), mRNA
NM_207358	Homo sapiens hypothetical protein LOC339789 (LOC339789), mRNA
NM_207359	Homo sapiens glutamate decarboxylase-like 1 (GADL1), mRNA
NM_207362	Homo sapiens similar to 2010300C02Rik protein (MGC42367), mRNA
NM_207363	Homo sapiens Nck-associated protein 5 (NAP5), mRNA
NM_207364	Homo sapiens G protein-coupled receptor 148 (GPR148), mRNA
NM_207365	Homo sapiens similar to Arylacetamide deacetylase (AADAC) (MGC72001),
NM_207366	Homo sapiens FLJ44060 protein (FLJ44060), mRNA
NM_207367	Homo sapiens FLJ42291 protein (FLJ42291), mRNA
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NM_207370	Homo sapiens G protein-coupled receptor 153 (GPR153), mRNA
NM_207371	Homo sapiens FLJ45187 protein (FLJ45187), mRNA
NM_207372	Homo sapiens SH2 domain containing 4B (SH2D4B), mRNA
NM_207373	Homo sapiens chromosome 10 open reading frame 99 (C10orf99), mRNA
NM_207374	Homo sapiens olfactory receptor (UNQ6469), mRNA
NM_207375	Homo sapiens INPE5792 (UNQ5792), mRNA
NM_207376	Homo sapiens hypothetical protein (LOC387882), mRNA
NM_207377	Homo sapiens TIMM9 (UNQ9438), mRNA

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NM_207378 Homo sapiens serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antij
 NM_207379
             Homo sapiens FLJ42486 protein (FLJ42486), mRNA
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             Homo sapiens FLJ43339 protein (FLJ43339), mRNA
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            Homo sapiens FLJ45744 protein (FLJ45744), mRNA
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NM 207418
            Homo sapiens Similar to RIKEN cDNA 2700049P18 gene (MGC 57827), mR1
            Homo sapiens C1q and tumor necrosis factor related protein 8 (C1QTNF8), r
NM 207419
NM 207420 Homo sapiens intestinal facilitative glucose transporter 7 (SLC2A7), mRNA
            Homo sapiens peptidylarginine deiminase type 6 (PADI6), mRNA
NM 207421
NM_207422 Homo sapiens FLJ44635 protein (FLJ44635), mRNA
NM_207423 Homo sapiens FLJ45983 protein (FLJ45983), mRNA
NM _207424 Homo sapiens FLJ40536 protein (FLJ40536), mRNA
NM_207426 Homo sapiens FLJ46831 protein (FLJ46831), mRNA
NM_207427 Homo sapiens hypothetical gene supported by AY129010 (LOC399851), mR
NM_207428 Homo sapiens FLJ45212 protein (FLJ45212), mRNA
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NM 207441
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           Homo sapiens FLJ45244 protein (FLJ45244), mRNA
NM_207443
           Homo sapiens FLJ35695 protein (FLJ35695), mRNA
NM 207444
           Homo sapiens FLJ39531 protein (FLJ39531), mRNA
NM_207445
            Homo sapiens hypothetical gene supported by AK075564; BC060873 (LOC4
NM 207446
            Homo sapiens IFMQ9370 (UNQ9370), mRNA
NM 207447
NM 207448
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            Homo sapiens FLJ44674 protein (FLJ44674), mRNA
NM 207449
            Homo sapiens FLJ27243 protein (FLJ27243), mRNA
NM 207450
            Homo sapiens FLJ45121 protein (FLJ45121), mRNA
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NM_207452 Homo sapiens FLJ45200 protein (FLJ45200), mRNA
NM 207453 Homo sapiens FLJ35934 protein (FLJ35934), mRNA
NM_207454 Homo sapiens FLJ44815 protein (FLJ44815), mRNA
NM_207458 Homo sapiens FLJ46026 protein (FLJ46026), mRNA
NM_207459 Homo sapiens FLJ35767 protein (FLJ35767), mRNA
NM 207460 Homo sapiens FLJ44313 protein (FLJ44313), mRNA
NM 207461 Homo sapiens FLJ44881 protein (FLJ44881), mRNA
NM 207462 Homo sapiens FLJ45684 protein (FLJ45684), mRNA
NM 207463 Homo sapiens FLJ46230 protein (FLJ46230), mRNA
NM_207464 Homo sapiens FLJ40008 protein (FLJ40008), mRNA
NM_207465 Homo sapiens FLJ45337 protein (FLJ45337), mRNA
NM_207466 Homo sapiens FLJ46489 protein (FLJ46489), mRNA
NM_207467 Homo sapiens FLJ35530 protein (FLJ35530), mRNA
NM_207468 Homo sapiens FLJ43505 protein (FLJ43505), mRNA
NM_207469 Homo sapiens KFLL827 (UNQ827), mRNA
NM_207470 Homo sapiens FLJ45832 protein (FLJ45832), mRNA
NM_207471 Homo sapiens FLJ42200 protein (FLJ42200), mRNA
NM_207472 Homo sapiens FLJ46020 protein (FLJ46020), mRNA
NM_207473 Homo sapiens FLJ41733 protein (FLJ41733), mRNA
NM 207474 Homo sapiens FLJ42953 protein (FLJ42953), mRNA
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            Homo sapiens FLJ27365 protein (FLJ27365), mRNA
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            Homo sapiens FLJ41046 protein (FLJ41046), mRNA
NM 207479
            Homo sapiens AILT5830 (UNQ5830), mRNA
NM 207480
            Homo sapiens FLJ34870 protein (FLJ34870), mRNA
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            Homo sapiens FLJ44048 protein (FLJ44048), mRNA
NM 207482
            Homo sapiens FLJ45964 protein (FLJ45964), mRNA
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            Homo sapiens FLJ41327 protein (FLJ41327), mRNA
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            Homo sapiens FLJ42393 protein (FLJ42393), mRNA
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            Homo sapiens FLJ35816 protein (FLJ35816), mRNA
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            Homo sapiens FLJ45721 protein (FLJ45721), mRNA
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            Homo sapiens similar to KIAA1680 protein (MGC48628), mRNA
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NM 207492
            Homo sapiens FLJ44477 protein (FLJ44477), mRNA
            Homo sapiens FLJ44896 protein (FLJ44896), mRNA
NM 207493
            Homo sapiens FLJ40092 protein (FLJ40092), mRNA
NM 207494
            Homo sapiens hypothetical protein DKFZp686I15217 (DKFZp686I15217), ml
NM 207495
            Homo sapiens chromosome 6 open reading frame 214 (C6orf214), mRNA
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            Homo sapiens FLJ43752 protein (FLJ43752), mRNA
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            Homo sapiens FLJ43093 protein (FLJ43093), mRNA
NM_207498
            Homo sapiens FLJ41841 protein (FLJ41841), mRNA
NM_207499
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NM_207500	Homo sapiens FLJ44955 protein (FLJ44955), mRNA
NM_207501	Homo sapiens FLJ27255 protein (FLJ27255), mRNA
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NM_207503	Homo sapiens FLJ42280 protein (FLJ42280), mRNA
NM_207504	Homo sapiens FLJ46365 protein (FLJ46365), mRNA
NM_207505	Homo sapiens FLJ45248 protein (FLJ45248), mRNA
NM_207506	Homo sapiens sterile alpha motif domain containing 12 (SAMD12), mRNA
NM 207507	Homo sapiens FLJ45202 protein (FLJ45202), mRNA
NM_207508	Homo sapiens FLJ45478 protein (FLJ45478), mRNA
NM_207509	Homo sapiens FLJ46836 protein (FLJ46836), mRNA
NM 207510	· · · · · · · · · · · · · · · · · · ·
_	Homo sapiens FLJ45224 protein (FLJ45224), mRNA
NM_207511	Homo sapiens FLJ36268 protein (FLJ36268), mRNA
NM_207512	Homo sapiens nuclear RNA export factor-like (LOC401610), mRNA
NM_207513	Homo sapiens POTE14 (LOC404785), mRNA
NM_207514	Homo sapiens hypothetical protein FLJ20186 (FLJ20186), transcript variant
NM_207517	Homo sapiens ADAMTS-like 3 (ADAMTSL3), mRNA
NM_207518	Homo sapiens protein kinase, cAMP-dependent, catalytic, alpha (PRKACA),
NM_207519	Homo sapiens zeta-chain (TCR) associated protein kinase 70kDa (ZAP70), t
NM_207520	Homo sapiens reticulon 4 (RTN4), transcript variant 4, mRNA
NM_207521	Homo sapiens reticulon 4 (RTN4), transcript variant 5, mRNA
NM_207577	Homo sapiens microtubule-associated protein 6 (MAP6), transcript variant 2,
NM_207578	Homo sapiens protein kinase, cAMP-dependent, catalytic, beta (PRKACB), ti
NM 207581	Homo sapiens similar to Numb-interacting homolog gene (LOC405753), mRI
NM 207582	Homo sapiens HERV-FRD provirus ancestral Env polyprotein (HERV-FRD), 1
NM 207584	Homo sapiens interferon (alpha, beta and omega) receptor 2 (IFNAR2), trans
NM_207585	Homo sapiens interferon (alpha, beta and omega) receptor 2 (IFNAR2), trans
NM 207627	Homo sapiens ATP-binding cassette, sub-family G (WHITE), member 1 (ABC
NM 207628	Homo sapiens ATP-binding cassette, sub-family G (WHITE), member 1 (ABC
NM_207629	Homo sapiens ATP-binding cassette, sub-family G (WHITE), member 1 (ABC
NM_207630	Homo sapiens ATP-binding cassette, sub-family G (WHITE), member 1 (ABC
NM 207644	Homo sapiens similar to hypothetical protein LOC192734 (LOC388886), mRI
_	Homo sapiens similar to expressed sequence Al593442 (LOC399947), mRN
NM_207645	Homo sapiens eosinophil lysophospholipase-like (LOC400696), mRNA
NM_207646	
NM_207647	Homo sapiens similar to fibronectin type 3 and SPRY domain-containing prot
NM_207660	Homo sapiens nuclear protein UKp68 (FLJ11806), transcript variant 2, mRN/
NM_207661	Homo sapiens nuclear protein UKp68 (FLJ11806), transcript variant 3, mRN/
NM_207662	Homo sapiens nuclear protein UKp68 (FLJ11806), transcript variant 4, mRN/
NM_207672	Homo sapiens GRIP1 associated protein 1 (GRIPAP1), transcript variant 2, r
NM_212460	Homo sapiens ADP-ribosylation factor-like 4A (ARL4A), transcript variant 2, I
NM_212461	Homo sapiens protein kinase, AMP-activated, gamma 1 non-catalytic subuni
NM_212464	Homo sapiens calpain 3, (p94) (CAPN3), transcript variant 8, mRNA
NM_212465	Homo sapiens calpain 3, (p94) (CAPN3), transcript variant 7, mRNA
NM_212467	Homo sapiens calpain 3, (p94) (CAPN3), transcript variant 9, mRNA
NM_212469	Homo sapiens choline kinase alpha (CHKA), transcript variant 2, mRNA
NM_212471	Homo sapiens protein kinase, cAMP-dependent, regulatory, type I, alpha (tis-
NM_212472	Homo sapiens protein kinase, cAMP-dependent, regulatory, type I, alpha (tis
NM 212474	Homo sapiens fibronectin 1 (FN1), transcript variant 6, mRNA
NM_212475	Homo sapiens fibronectin 1 (FN1), transcript variant 2, mRNA
NM 212476	Homo sapiens fibronectin 1 (FN1), transcript variant 5, mRNA
NM_212478	Homo sapiens fibronectin 1 (FN1), transcript variant 4, mRNA
NM 212479	Homo sapiens zinc finger, MYND domain containing 11 (ZMYND11), transcri
NM_212481	Homo sapiens AT rich interactive domain 5A (MRF1-like) (ARID5A), transcrip
NM_212482	Homo sapiens fibronectin 1 (FN1), transcript variant 1, mRNA
NM_212492	Homo sapiens G protein pathway suppressor 1 (GPS1), transcript variant 1,
NM_212492 NM_212502	Homo sapiens PCTAIRE protein kinase 3 (PCTK3), transcript variant 2, mRN
_	Homo sapiens PCTAIRE protein kinase 3 (PCTK3), transcript variant 2, Into Homo sapiens PCTAIRE protein kinase 3 (PCTK3), transcript variant 1, mRN
NM_212503	Homo sapiens cell division cycle 25B (CDC25B), transcript variant 5, mRNA
NM_212530	Tiomo sapiens cen división cycle 200 (CDC200), transcript variant 5, MRNA

NM_212533	
NM_212535	Homo sapiens protein kinase C, beta 1 (PRKCB1), transcript variant 1, mRN.
NM_212539	Homo sapiens protein kinase C, delta (PRKCD), transcript variant 2, mRNA
NM_212540	Homo sapiens E2F transcription factor 6 (E2F6), transcript variant f, mRNA
NM_212543	Homo sapiens UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypel
NM_212550	Homo sapiens biogenesis of lysosome-related organelles complex-1, subuni
NM 212551	Homo sapiens hypothetical protein SB145 (SB145), mRNA
NM 212552	Homo sapiens similar to RIKEN 1810056O20 (LOC388962), mRNA
NM 212553	Homo sapiens deubiquitinating enzyme DUB4 (DUB4), mRNA
NM_212554	Homo sapiens similar to CG9643-PA (LOC399818), mRNA
NM_212555	Homo sapiens LVLF3112 (UNQ3112), mRNA
NM_212556	,
NM_212557	Homo sapiens ankyrin repeat and SOCS box-containing 18 (ASB18), mRNA Homo sapiens RSTI689 (UNQ689), mRNA
NM_212558	Homo sapiena similar ta DIVEN A030004N40 (LOO404400)
NM_212559	Homo sapiens similar to RIKEN A930001M12 (LOC401498), mRNA
	Homo sapiens X Kell blood group precursor-related, X-linked (XKRX), mRNA
NM_213560	Homo sapiens protein kinase N1 (PKN1), transcript variant 1, mRNA
NM_213566	Homo sapiens DNA fragmentation factor, 45kDa, alpha polypeptide (DFFA),
NM_213568	Homo sapiens solute carrier family 39 (zinc transporter), member 3 (SLC39A
NM_213569	Homo sapiens nebulette (NEBL), transcript variant 2, mRNA
NM_213589	Homo sapiens Ras association (RalGDS/AF-6) and pleckstrin homology dom
NM_213590	Homo sapiens ret finger protein 2 (RFP2), transcript variant 3, mRNA
NM_213593	Homo sapiens deiodinase, iodothyronine, type I (DIO1), transcript variant 2, I
NM_213594	Homo sapiens regulatory factor X, 4 (influences HLA class II expression) (RF
NM_213596	Homo sapiens forkhead box N4 (FOXN4), mRNA
NM_213597	Homo sapiens hypothetical protein LOC124751 (LOC124751), mRNA
NM_213598	Homo sapiens zinc finger protein 543 (ZNF543), mRNA
NM_213599	Homo sapiens transmembrane protein 16E (TMEM16E), mRNA
NM_213600	Homo sapiens hypothetical protein LOC255189 (LOC255189), mRNA
NM_213601	Homo sapiens hypothetical protein LOC283578 (LOC283578), mRNA
NM_213602	Homo saplens CD33 antigen-like 3 (CD33L3), mRNA
NM_213603	Homo sapiens hypothetical protein LOC285989 (LOC285989), mRNA
NM_213604	Homo sapiens thrombospondin, type I, domain containing 6 (THSD6), mRNA
NM_213605	Homo sapiens zinc finger protein 517 (ZNF517), mRNA
NM_213606	Homo sapiens similar monocarboxylate transporter (LOC387700), mRNA
NM_213607	Homo sapiens similar to RIKEN 4933439F11 (LOC388389), mRNA
NM_213608	Homo sapiens IIDS6411 (UNQ6411), mRNA
NM_213609	Homo sapiens TAFA1 protein (TAFA1), mRNA
NM_213611	Homo sapiens solute carrier family 25 (mitochondrial carrier; phosphate carri
NM_213612	Homo sapiens solute carrier family 25 (mitochondrial carrier; phosphate carri
NM_213613	Homo sapiens solute carrier family 26 (sulfate transporter), member 1 (SLC2
NM_213618	Homo sapiens suppression of tumorigenicity 5 (ST5), transcript variant 3, mF
NM_213619	Homo sapiens ATPase, H+ transporting, lysosomal 50/57kDa, V1 subunit H
NM_213620	Homo sapiens ATPase, H+ transporting, lysosomal 50/57kDa, V1 subunit H
NM_213621	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 3A (HTR3A), transci
NM_213622	Homo sapiens STAM binding protein (STAMBP), transcript variant 3, mRNA
NM_213631	Homo sapiens chromosome 20 open reading frame 132 (C20orf132), transci
NM_213632	Homo sapiens chromosome 20 open reading frame 132 (C20orf132), transcr
NM_213633	Homo sapiens pregnancy specific beta-1-glycoprotein 4 (PSG4), transcript va
NM_213636	Homo sapiens PDZ and LIM domain 7 (enigma) (PDLIM7), transcript variant
NM_213645	Homo sapiens tryptophanyl-tRNA synthetase (WARS), transcript variant 3, m
NM_213646	Homo sapiens tryptophanyl-tRNA synthetase (WARS), transcript variant 4, n
NM_213647	Homo sapiens fibroblast growth factor receptor 4 (FGFR4), transcript variant
NM_213648	Homo sapiens transcription factor 7 (T-cell specific, HMG-box) (TCF7), trans-
NM_213649	Homo sapiens sideroflexin 4 (SFXN4), transcript variant 1, mRNA
NM_213650	Homo sapiens sideroflexin 4 (SFXN4), transcript variant 3, mRNA
NM_213651	Homo sapiens solute carrier family 25 (mitochondrial carrier; phosphate carri
NM_213652	Homo sapiens hemochromatosis type 2 (juvenile) (HFE2), transcript variant c

NM 213653	Homo sapiens hemochromatosis type 2 (juvenile) (HFE2), transcript variant a
NM_213654	Homo sapiens armadillo repeat containing 8 (ARMC8), mRNA
NM 213655	Homo sapiens hereditary sensory neuropathy, type II (HSN2), mRNA
NM_213656	Homo sapiens type I hair keratin KA35 (KA35), mRNA
NM_213657	Homo sapiens killer cell lectin-like receptor subfamily C, member 1 (KLRC1),
NM 213658	Homo sapiens killer cell lectin-like receptor subfamily C, member 1 (KLRC1),
NM_213662	Home sanions signal transducer and activates of the serial and activates of the serial transducer and activates of the serial transducer.
NM_213674	
NM_213720	Homo sapiens tropomyosin 2 (beta) (TPM2), transcript variant 2, mRNA
NM_213723	Homo sapiens chromosome 22 open reading frame 16 (C22orf16), mRNA
_	Homo sapiens chromosome 13 open reading frame 25 (C13orf25), transcript
NM_213724	Homo sapiens chromosome 13 open reading frame 25 (C13orf25), transcript
NM_213725	Homo sapiens ribosomal protein, large, P1 (RPLP1), transcript variant 2, mR
NM_213726	Homo sapiens inhibitor of CDK interacting with cyclin A1 (INCA1), mRNA
NM_214461	Homo sapiens MGC50273 protein (MGC50273), mRNA
NM_214462	Homo sapiens dapper homolog 2, antagonist of beta-catenin (xenopus) (DAC
NM_214675	Homo sapiens CD209 antigen-like (CD209L), transcript variant 2, mRNA
NM_214676	Homo sapiens CD209 antigen-like (CD209L), transcript variant 3, mRNA
NM_214677	Homo sapiens CD209 antigen-like (CD209L), transcript variant 4, mRNA
NM_214678	Homo sapiens CD209 antigen-like (CD209L), transcript variant 5, mRNA
NM_214679	Homo sapiens CD209 antigen-like (CD209L), transcript variant 6, mRNA
NM_214710	Homo sapiens protease, serine-like 1 (PRSSL1), mRNA
NM_214711	Homo sapiens hypothetical LOC401137 (LOC401137), mRNA
XM_001279	Homo sapiens phosphoprotein enriched in astrocytes 15 (PEA15), mRNA
XM_001290 XM_001296	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 4 (ABC4
XM_001322	Homo sapiens cytosolic acyl coenzyme A thioester hydrolase (HBACH), mRt
XM_001322	Homo sapiens coagulation factor III (thromboplastin, tissue factor) (F3), mRN
XM_001442	Homo sapiens peroxiredoxin 1 (PRDX1), mRNA
XM_001442 XM_001463	Homo sapiens ATRasa III transporting by MRNA
XM_001527	Homo sapiens ATPase, H+ transporting, lysosomal (vacuolar proton pump) 2
XM_001541	Homo sapiens polymyositis/scleroderma autoantigen 2 (100kD) (PMSCL2), r
XM_001607	Homo sapiens heterogeneous nuclear ribonucleoprotein R (HNRPR), mRNA
XM_001644	Homo sapiens growth arrest and DNA-damage-inducible, alpha (GADD45A),
XM_001654	Homo sapiens protein phosphatase 1, regulatory (inhibitor) subunit 8 (PPP1F Homo sapiens chromosome 1 open reading frame 8 (C1orf8), mRNA
XM_001655	Homo sapiens chromosome i open reading frame 8 (Choris), micha Homo sapiens HSPCO34 protein (LOC51668), mRNA
XM_001677	Homo sapiens involucrin (IVL), mRNA
XM_001690	Homo sapiens cytochrome b5 reductase 1 (B5R.1) (LOC51706), mRNA
XM 007651	Homo sapiens similar to Sorbitol dehydrogenase (L-iditol 2-dehydrogenase)
XM 010658	Homo sapiens similar to contitor denydrogenase (L-ratio) 2-denydrogenase) Homo sapiens similar to protein phosphatase 1, regulatory (inhibitor) subunit
XM_012219	Homo sapiens similar to Phosphoglycerate mutase 1 (Phosphoglycerate mut
XM 015334	Homo sapiens family with sequence similarity 10, member A3 (FAM10A3), m
XM 015717	Homo sapiens similar to 40S ribosomal protein S7 (S8) (LOC149224), mRN/
XM_016093	Homo sapiens similar to eukaryotic initiation factor 5A isoform I variant A (LC
XM_016113	Homo sapiens similar to 40S ribosomal protein S10 (LOC158104), mRNA
XM_016532	Homo sapiens similar to hepatitis C virus core-binding protein 6; cervical can
XM 016548	Homo sapiens chromodomain protein, Y chromosome, 2 related (LOC20361
XM_016713	Homo sapiens similar to ribosomal protein S3a; 40S ribosomal protein S3a; 1
XM_017374	Homo sapiens similar to Nonhistone chromosomal protein HMG-17 (High-mc
XM_017661	Homo sapiens similar to 40S ribosomal protein S26 (LOC158200), mRNA
XM_017966	Homo sapiens similar to Reticulon protein 3 (Neuroendocrine-specific proteir
XM_018399	Homo sapiens hypothetical protein LOC144983 (LOC144983), mRNA
XM_018432	Homo sapiens similar to 60S ribosomal protein L7 (LOC146110), mRNA
XM_018487	Homo sapiens similar to omega protein (LOC91353), mRNA
XM_027045	Homo sapiens cut-like 2 (Drosophila) (CUTL2), mRNA
XM_027074	Homo sapiens I(3)mbt-like 3 (Drosophila) (L3MBTL3), mRNA
XM_027105	Homo sapiens KIAA0767 protein (KIAA0767), mRNA
XM_027162	Homo sapiens DMRT-like family A2 (DMRTA2), mRNA
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VM 007000	Hanne senten tekskilen settle senet til 1. 0 (mmoo) se DNA
XM_027236	Homo sapiens tetratricopeptide repeat domain 9 (TTC9), mRNA
XM_027237	Homo sapiens mitogen-activated protein kinase kinase kinase 9 (MAP3K9), ı
XM_027307	Homo sapiens pleckstrin homology domain containing, family G (with RhoGe
XM_027330	Homo sapiens RNA-binding region (RNP1, RRM) containing 7 (RNPC7), mR
XM 027658	Homo sapiens fibronectin type III domain containing 1 (FNDC1), mRNA
XM 028067	Homo sapiens midnolin (MIDN), mRNA
XM 028217	Homo sapiens hypothetical LOC90024 (LOC90024), mRNA
XM_028253	Homo sapiens chromosome 19 open reading frame 7 (C19orf7), mRNA
_	
XM_028413	Homo sapiens KIAA1374 protein (KIAA1374), mRNA
XM_028522	Homo sapiens myosin heavy chain Myr 8 (MYR8), mRNA
XM_028810	Homo sapiens KIAA1755 protein (KIAA1755), mRNA
XM_029084	Homo sapiens hypothetical protein FLJ21438 (FLJ21438), mRNA
XM_029101	Homo sapiens KIAA0947 protein (KIAA0947), mRNA
XM_029323	Homo sapiens hypothetical protein LOC90133 (LOC90133), mRNA
XM_029353	Homo sapiens KIAA1509 (KIAA1509), mRNA
XM 029429	Homo sapiens KIAA1328 protein (KIAA1328), mRNA
XM 029438	Homo sapiens KIAA0397 gene product (KIAA0397), mRNA
XM 029805	Homo sapiens similar to ribosomal protein L7 (LOC90193), mRNA
XM_029962	Homo sapiens potassium channel, subfamily T, member 1 (KCNT1), mRNA
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XM_030300	Homo sapiens netrin receptor Unc5h1 (KIAA1976), mRNA
XM_030378	Homo sapiens zinc finger protein 527 (ZNF527), mRNA
XM_030445	Homo sapiens chromosome 10 open reading frame 75 (C10orf75), mRNA
XM_030559	Homo sapiens par-6 partitioning defective 6 homolog beta (C. elegans) (PAR
XM_030577	Homo sapiens ATPase, Class II, type 9A (ATP9A), mRNA
XM_030665	Homo sapiens KIAA1229 protein (KIAA1229), mRNA
XM_030669	Homo sapiens hypothetical protein LOC90288 (LOC90288), mRNA
XM_030729	Homo sapiens hypothetical protein DKFZp434I1117 (DKFZp434I1117), mRN
XM_030892	Homo sapiens hypothetical protein LOC90317 (LOC90317), mRNA
XM_030893	Homo sapiens similar to ribosomal protein L37 (LOC147655), mRNA
XM 030896	Homo sapiens hypothetical protein LOC90321 (LOC90321), mRNA
XM 030958	Homo sapiens hypothetical protein LOC90333 (LOC90333), mRNA
XM_031009	Homo sapiens similar to fer-1 like protein 3 (LOC90342), mRNA
XM_031102	Homo sapiens WD repeat domain 22 (WDR22), mRNA
_	
XM_031104	Homo sapiens UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylga
XM_031246	Homo sapiens roundabout, axon guidance receptor, homolog 2 (Drosophila)
XM_031342	Homo sapiens zinc finger, SWIM domain containing 4 (ZSWIM4), mRNA
XM_031357	Homo sapiens KIAA0802 protein (KIAA0802), mRNA
XM_031401	Homo sapiens EGF-like-domain, multiple 3 (EGFL3), mRNA
XM_031553	Homo sapiens U2-associated SR140 protein (SR140), mRNA
XM_031561	Homo sapiens TRAF4 associated factor 1 (FLJ14502), mRNA
XM_031689	Homo sapiens MAX gene associated (MGA), mRNA
XM 031706	Homo sapiens likely ortholog of mouse mitogen activated protein kinase binc
XM_031744	Homo sapiens START domain containing 9 (STARD9), mRNA
XM_031975	Homo sapiens similar to Ribulose-phosphate 3-epimerase (Ribulose-5-phosp
XM 032059	Homo sapiens similar to BC37295_3 (LOC90485), mRNA
XM_032181	Homo sapiens KIAA1233 protein (KIAA1233), mRNA
XM_032278	Homo sapiens signal-induced proliferation-associated 1 like 3 (SIPA1L3), mF
_	Homo sapiens DKFZP564I122 protein (DKFZP564I122), mRNA
XM_032397	
XM_032542	Homo sapiens FLJ41352 protein (FLJ41352), mRNA
XM_032571	Homo sapiens KIAA0888 protein (KIAA0888), mRNA
XM_032678	Homo sapiens hypothetical protein LOC90576 (LOC90576), mRNA
XM_032693	Homo sapiens KIAA0420 gene product (KIAA0420), mRNA
XM_032812	Homo sapiens similar to hypothetical protein (LOC388506), mRNA
XM_032901	Homo sapiens KIAA0226 gene product (KIAA0226), mRNA
XM_032945	Homo sapiens chromosome 21 open reading frame 25 (C21orf25), mRNA
XM_032996	Homo sapiens KIAA0819 protein (KIAA0819), mRNA
XM 032997	Homo sapiens flavoprotein oxidoreductase MICAL3 (MICAL3), mRNA

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XM_033113	Homo sapiens KIAA0789 gene product (KIAA0789), mRNA
XM_033173	Homo sapiens protocadherin 19 (PCDH19), mRNA
XM_033370	Homo sapiens zinc finger homeobox 2 (ZFHX2), mRNA
XM_033371	Homo sapiens chromosome 14 open reading frame 120 (C14orf120), mRNA
XM_033391	Homo sapiens protein phosphatase 1, regulatory (inhibitor) subunit 3E (PPP
XM_033704	Homo sapiens cDNA DKFZp434C184 gene (DKFZp434C184), mRNA
XM_033853	Homo sapiens hypothetical zinc finger protein FLJ20573 (FLJ20573), mRNA
XM_034086	Homo sapiens KIAA1107 protein (KIAA1107), mRNA
XM_034262	Homo sapiens KIAA1727 protein (KIAA1727), mRNA
XM 034274	Homo sapiens v-myb myeloblastosis viral oncogene homolog (avian)-like 1 (
XM 034594	Homo sapiens KIAA1604 protein (KIAA1604), mRNA
XM 034623	Homo sapiens similar to small nuclear ribonucleoprotein E (LOC158352), mF
XM 034640	Homo sapiens similar to ribosomal protein L4; 60S ribosomal protein L4; hon
XM 034717	Homo sapiens KIAA0493 protein (KIAA0493), mRNA
XM 034819	Homo sapiens KIAA0326 protein (KIAA0326), mRNA
XM 034872	Homo sapiens septin 8 (SEPT8), mRNA
XM_034904	Homo sapiens KIAA0912 protein (KIAA0912), mRNA
XM_035037	Homo sapiens low density lipoprotein receptor-related protein 4 (LRP4), mRt
XM_035299	
_	Homo sapiens zinc finger, SWIM domain containing 6 (ZSWIM6), mRNA
XM_035371	Homo sapiens KIAA1643 protein (KIAA1643), mRNA
XM_035405	Homo sapiens KIAA1384 protein (KIAA1384), mRNA
XM_035497	Homo sapiens KIAA1602 protein (KIAA1602), mRNA
XM_035527	Homo sapiens hypothetical protein FLJ10980 (FLJ10980), mRNA
XM_035572	Homo sapiens chromosome 4 open reading frame 9 (C4orf9), mRNA
XM_035601	Homo sapiens SAP90/PSD-95-associated protein 3 (SAPAP3), mRNA
XM_035825	Homo sapiens KIAA0143 protein (KIAA0143), mRNA
XM_035863	Homo sapiens zinc finger protein 37a (KOX 21) (ZNF37A), mRNA
XM_035946	Homo sapiens KIAA1613 protein (KIAA1613), mRNA
XM_035953	Homo sapiens chromosome 9 open reading frame 11 (C9orf11), mRNA
XM_036115	Homo sapiens KIAA1753 protein (KIAA1753), mRNA
XM_036218	Homo sapiens zinc finger protein 506 (ZNF506), mRNA
XM_036299	Homo sapiens KIAA1522 protein (KIAA1522), mRNA
XM_036612	Homo sapiens hypothetical LOC91170 (LOC91170), mRNA
XM_036708	Homo sapiens KIAA0368 (KIAA0368), mRNA
XM_036729	Homo sapiens ubiquitin specific protease 41 (USP41), mRNA
XM_036740	Homo sapiens nuclear pore membrane glycoprotein 210-like (LOC91181), m
XM_036936	Homo sapiens KIAA1666 protein (KIAA1666), mRNA
XM_036942	Homo sapiens similar to hypothetical protein (LOC150221), mRNA
XM_036988	Homo sapiens KIAA1000 protein (KIAA1000), mRNA
XM_037493	Homo sapiens SH3 and multiple ankyrin repeat domains 3 (SHANK3), mRN/
XM_037523	Homo sapiens KIAA1076 protein (KIAA1076), mRNA
XM_037557	Homo sapiens KIAA0984 protein (KIAA0984), mRNA
XM_037759	Homo sapiens KIAA0376 protein (KIAA0376), mRNA
XM_037817	Homo sapiens hypothetical protein FLJ31033 (FLJ31033), mRNA
XM_038063	Homo sapiens UDP-N-acteylglucosamine pyrophosphorylase 1-like 1 (UAP1
XM_038150	Homo sapiens microtubule associated serine/threonine kinase 3 (MAST3), m
XM_038288	Homo sapiens KIAA0191 protein (KIAA0191), mRNA
XM_038291	Homo sapiens hypothetical protein FLJ13456 (FLJ13456), mRNA
XM_038298	Homo sapiens hypothetical protein DKFZp434E2321 (DKFZp434E2321), mF
XM_038436	Homo sapiens KIAA1786 protein (KIAA1786), mRNA
XM_038520	Homo sapiens KIAA0542 gene product (KIAA0542), mRNA
XM_038567	Homo sapiens metastasis associated family, member 3 (MTA3), mRNA
XM_038576	Homo sapiens hypothetical protein BC007901 (LOC91461), mRNA
XM 038604	Homo sapiens unc-13 homolog A (C. elegans) (UNC13A), mRNA
XM_038664	Homo sapiens KIAA0564 protein (KIAA0564), mRNA
XM_038920	Homo sapiens Nedd4 binding protein 3 (N4BP3), mRNA
XM_038999	Homo sapiens NEDD4-related E3 ubiquitin ligase NEDL2 (NEDL2), mRNA
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XM 039169	Homo sapiens KIAA1276 protein (KIAA1276), mRNA
XM 039218	Homo sapiens similar to ribosomal protein S2; 40S ribosomal protein S2 (LO
XM_039385	Homo sapiens KIAA1093 protein (KIAA1093), mRNA
XM 039393	Homo sapiens plexin A4 (PLXNA4), mRNA
XM 039495	Homo sapiens DNA segment, Chr 15, Wayne State University 75, expressed
XM_039515	Homo sapiens G2 protein (G2), mRNA
XM_039548	Homo sapiens SMYD family member 5 (SMYD5), mRNA
XM_039570	Homo sapiens SEC15-like 2 (S. cerevisiae) (SEC15L2), mRNA
XM_039627	Homo sapiens contactin 3 (plasmacytoma associated) (CNTN3), mRNA
XM 039676	Homo sapiens KIAA1240 protein (KIAA1240), mRNA
XM 039698	Homo sapiens KIAA1432 (KIAA1432), mRNA
XM 039702	Homo sapiens similar to ribosomal protein S3a; 40S ribosomal protein S3a; \
XM 039721	Homo sapiens similar to MGC5244 protein (LOC91632), mRNA
XM_039733	Homo sapiens KIAA0953 (KIAA0953), mRNA
XM_039762	Homo sapiens myelin transcription factor 1-like (MYT1L), mRNA
XM 039796	Homo sapiens Traf2 and NCK interacting kinase (KIAA0551), mRNA
XM_039877	Homo sapiens mucin 5, subtype B, tracheobronchial (MUC5B), mRNA
XM_039908	Homo sapiens hypothetical protein BC007307 (LOC91664), mRNA
XM_039922	Homo sapiens similar to FLJ00050 protein (LOC401873), mRNA
XM_040149	Homo sapiens similar to E74-like factor 2 (ets domain transcription factor); ne
XM_040265	Homo sapiens KIAA0217 protein (KIAA0217), mRNA
XM_040383	Homo sapiens KIAA1677 (KIAA1677), mRNA
XM_040486	Homo sapiens KIAA1789 protein (KIAA1789), mRNA
XM_040527	Homo sapiens tenascin N (TNN), mRNA
XM_040592	Homo sapiens zinc finger protein 469 (ZNF469), mRNA
XM_040910	Homo sapiens chromosome 14 open reading frame 73 (C14orf73), mRNA
XM_041018	Homo sapiens KIAA0367 (KIAA0367), mRNA
XM_041020	Homo sapiens similar to protein 40kD (LOC158473), mRNA
XM_041116	Homo sapiens chromosome 14 open reading frame 171 (C14orf171), mRNA
XM_041126	Homo sapiens KIAA1486 protein (KIAA1486), mRNA
XM_041162	Homo sapiens Nedd4 family interacting protein 2 (NDFIP2), mRNA
XM_041191	Homo sapiens KIAA0931 protein (KIAA0931), mRNA Homo sapiens similar to RNA-binding protein S1, serine-rich domain; SR pro
XM_041221	Homo sapiens likely ortholog of mouse semaF cytoplasmic domain associate
XM_041363	Homo sapiens KIAA0523 protein (KIAA0523), mRNA
XM_041964	Homo sapiens mitogen-activated protein kinase kinase kinase 1 (MAP3K1),
XM_042066	Homo sapiens similar to AKAP-binding sperm protein ropporin (LOC152015)
XM_042178	Homo sapiens similar to RIKEN cDNA 4933437K13 (LOC92017), mRNA
XM_042234	Homo sapiens KIAA1546 protein (KIAA1546), mRNA
XM_042301 XM_042323	Homo sapiens calmodulin binding transcription activator 1 (CAMTA1), mRNA
XM 042500	Homo sapiens similar to ribosomal protein S2; 40S ribosomal protein S2 (LO
XM_042635	Homo sapiens KIAA1069 protein (KIAA1069), mRNA
XM_042661	Homo sapiens KIAA1530 protein (KIAA1530), mRNA
XM_042685	Homo sapiens KIAA1414 protein (KIAA1414), mRNA
XM_042698	Homo sapiens ubiquitin specific protease 22 (USP22), mRNA
XM_042833	
XM_042936	A CODIDO MONA
XM 042978	
XM_043118	Homo sapiens KIAA0286 protein (KIAA0286), mRNA
XM 043272	Homo sapiens KIAA0346 protein (KIAA0346), mRNA
XM_043492	Homo sapiens KIAA1728 protein (KIAA1728), mRNA
XM 043493	Homo sapiens synaptic vesicle protein 2C (SV2C), mRNA
XM_043500	Homo sapiens similar to death-associated protein (LOC92196), mRNA
XM_043613	Homo sapiens glutamate receptor, ionotropic, delta 1 (GRID1), mRNA
XM_043624	Homo sapiens hypothetical protein DKFZp434E1822 (DKFZp434E1822), mF
XM_043653	Homo sapiens hypothetical protein FLJ10097 (FLJ10097), mRNA
XM_043739	Homo sapiens hypothetical cardiac/skeletal muscle-expressed ORF (LOC92)
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XM_043863	Homo sapiens hypothetical protein DKFZp434H2226 (DKFZp434H2226), mF
XM_043979	Homo sapiens similar to FLJ12363 protein (LOC92267), mRNA
XM_043989	Homo sapiens hypothetical protein LOC92270 (LOC92270), mRNA
XM_044062	Homo sapiens hypothetical protein DKFZp761O2018 (DKFZp761O2018), ml
XM_044166	Homo sapiens hypothetical protein LOC92312 (LOC92312), mRNA
XM 044178	Homo sapiens KIAA1211 protein (KIAA1211), mRNA
XM 044196	Homo sapiens DKFZP434C212 protein (DKFZP434C212), mRNA
XM 044212	Homo sapiens KIAA1862 protein (KIAA1862), mRNA
XM 044334	Homo sapiens RIM binding protein 2 (KIAA0318), mRNA
XM 044434	Homo sapiens KIAA1458 protein (KIAA1458), mRNA
XM 044461	Homo sapiens KIAA1102 protein (KIAA1102), mRNA
XM 044580	Homo sapiens KIAA1024 protein (KIAA1024), mRNA
XM_044622	Homo sapiens collagen, type XIV, alpha 1 (undulin) (COL14A1), mRNA
XM_044632	Homo sapiens KIAA0556 protein (KIAA0556), mRNA
XM_044727	Homo sapiens myotubularin related protein 7 (MTMR7), mRNA
-	Homo sapiens KIAA1340 protein (KIAA1340), mRNA
XM_044836	
XM_044921	Homo sapiens KIAA1442 protein (KIAA1442), mRNA
XM_045086	Homo sapiens KIAA1764 protein (KIAA1764), mRNA
XM_045113	Homo sapiens astrotactin (ASTN), mRNA
XM_045271	Homo sapiens KIAA1580 protein (KIAA1580), mRNA
XM_045283	Homo sapiens similar to IK cytokine; arginine/glutamic acid/aspartic acid rep
XM_045290	Homo sapiens similar to basic leucine zipper and W2 domains 1 (LOC15157
XM_045308	Homo sapiens PHD finger protein 19 (PHF19), mRNA
XM_045421	Homo sapiens chromosome 20 open reading frame 194 (C20orf194), mRNA
XM_045423	Homo sapiens KIAA0701 protein (KIAA0701), mRNA
XM_045581	Homo sapiens likely ortholog of mouse 5-azacytidine induced gene 1 (AZI1),
XM_045705	Homo sapiens similar to homologue of MJD, high homology to a genomic se
XM_045712	Homo sapiens KIAA0316 gene product (KIAA0316), mRNA
XM_045787	Homo sapiens hypothetical protein LOC92558 (LOC92558), mRNA
XM_045792	Homo sapiens GCN1 general control of amino-acid synthesis 1-like 1 (yeast)
XM_045907	Homo sapiens KIAA1170 protein (KIAA1170), mRNA
XM_045911	Homo sapiens tomosyn-like (KIAA1006), mRNA
XM_046099	Homo sapiens similar to small nuclear ribonucleoprotein E (LOC148064), mf
XM_046264	Homo sapiens DKFZP434B172 protein (DKFZP434B172), mRNA
XM_046305	Homo sapiens KIAA1205 (KIAA1205), mRNA
XM_046390	Homo sapiens zinc finger protein 473 (ZNF473), mRNA
XM_046437	Homo sapiens chromosome 20 open reading frame 50 (C20orf50), mRNA
XM_046531	Homo sapiens KIAA1614 protein (KIAA1614), mRNA
XM_046570	Homo sapiens KIAA1679 protein (KIAA1679), mRNA
XM_046581	Homo sapiens zinc finger, SWIM domain containing 5 (ZSWIM5), mRNA
XM_046600	Homo sapiens KIAA1272 protein (KIAA1272), mRNA
XM_046677	Homo sapiens solute carrier family 39 (zinc transporter), member 14 (SLC39
XM_046685	Homo sapiens KIAA1399 protein (KIAA1399), mRNA
XM_046751	Homo sapiens protein tyrosine phosphatase, receptor type, f polypeptide (PT
XM_046808	Homo sapiens neurofascin (NFASC), mRNA
XM_046861	Homo sapiens KRAB box containing C2H2 type zinc finger bA526D8.4 (BA5
XM_047025	Homo sapiens ornithine aminotransferase-like 1 (OATL1), mRNA
XM_047083	Homo sapiens similar to tubulin, beta 5 (LOC92755), mRNA
XM_047214	Homo sapiens KIAA0930 protein (KIAA0930), mRNA
XM_047325	Homo sapiens THO complex 2 (THOC2), mRNA
XM_047355	Homo sapiens KIAA1765 protein (KIAA1765), mRNA
XM_047357	Homo sapiens KIAA0342 gene product (KIAA0342), mRNA
XM_047462	Homo sapiens Spir-2 protein (Spir-2), mRNA
XM_047499	Homo sapiens hypothetical protein LOC149603 (LOC149603), mRNA
XM_047550	Homo sapiens zinc finger protein 492 (ZNF492), mRNA
XM_047554	Homo sapiens similar to Zinc finger protein 492 (LOC148198), mRNA
XM_047610	Homo sapiens KIAA1086 (KIAA1086), mRNA

XM 047617	Homo sapiens KIAA1349 protein (KIAA1349), mRNA
XM_047707	Homo sapiens solute carrier family 39 (zinc transporter), member 10 (SLC39
XM_047734	Homo sapiens similar to hect domain and RLD 2 (LOC146489), mRNA
XM_047770	Homo sapiens similar to alpha2-glucosyltransferase (LOC144245), mRNA
_	Homo sapiens odd Oz/ten-m homolog 2 (ODZ2), mRNA
XM_047995	Homo sapiens dud Ozter in nomolog 2 (OD22), mina Homo sapiens zinc finger protein 292 (ZNF292), mRNA
XM_048070	
XM_048104	Homo sapiens filaggrin (FLG), mRNA
XM_048128	Homo sapiens KIAA1596 (KIAA1596), mRNA
XM_048235	Homo sapiens Huntingtin interacting protein M (HYPM), mRNA
XM_048362	Homo sapiens KIAA1543 (KIAA1543), mRNA
XM_048462	Homo sapiens RUN and SH3 domain containing 2 (RUSC2), mRNA
XM_048592	Homo sapiens KIAA1045 (KIAA1045), mRNA
XM_048675	Homo sapiens KIAA1238 protein (KIAA1238), mRNA
XM_048721	Homo sapiens hypothetical protein DKFZp762K222 (DKFZp762K222), mRN
XM_048747	Homo sapiens KIAA1223 protein (KIAA1223), mRNA
XM_048774	Homo sapiens KIAA1332 protein (KIAA1332), mRNA
XM_048786	Homo sapiens KIAA1061 protein (KIAA1061), mRNA
XM_048825	Homo sapiens KIAA1026 protein (KIAA1026), mRNA
XM_048898	Homo sapiens heat shock 70kDa protein 12A (HSPA12A), mRNA
XM_049037	Homo sapiens trinucleotide repeat containing 9 (TNRC9), mRNA
XM_049078	Homo sapiens KIAA1239 protein (KIAA1239), mRNA
XM_049237	Homo sapiens KIAA0841 (KIAA0841), mRNA
XM_049349	Homo sapiens KIAA0534 protein (KIAA0534), mRNA
XM_049351	Homo sapiens KIAA1600 protein (KIAA1600), mRNA
XM_049380	Homo sapiens KIAA0339 gene product (KIAA0339), mRNA
XM_049384	Homo sapiens chromosome 7 open reading frame 3 (C7orf3), mRNA
XM_049575	Homo sapiens similar to succinate dehydrogenase flavoprotein subunit (LOC
XM_049619	Homo sapiens PR domain containing 6 (PRDM6), mRNA
XM_049695	Homo sapiens vang-like 2 (van gogh, Drosophila) (VANGL2), mRNA
XM_049952	Homo sapiens hypothetical protein FLJ23529 (FLJ23529), mRNA
XM_050041	Homo sapiens myosin ID (MYO1D), mRNA
XM_050219	Homo sapiens synaptopodin 2 (SYNPO2), mRNA
XM_050278	Homo sapiens kinesin family member 26A (KIF26A), mRNA
XM_050325	Homo sapiens KIAA1126 protein (KIAA1126), mRNA
XM_050478	Homo sapiens KIAA1202 protein (KIAA1202), mRNA
XM_050561	Homo sapiens SIN3 homolog B, transcriptional regulator (yeast) (SIN3B), mf
XM_050564	Homo sapiens similar to RIKEN cDNA 2410004L22 gene (M. musculus) (MG
XM_050625	Homo sapiens secreted frizzled-related protein 2 (SFRP2), mRNA
XM_050644	Homo sapiens KIAA1623 (KIAA1623), mRNA
XM_050846	Homo sapiens Indian hedgehog homolog (Drosophila) (IHH), mRNA
XM_051017	Homo sapiens KIAA0657 protein (KIAA0657), mRNA
XM_051081	Homo sapiens KIAA0608 protein (KIAA0608), mRNA
XM_051091	Homo sapiens KIAA1040 protein (KIAA1040), mRNA
XM_051197	Homo sapiens KIAA1005 protein (KIAA1005), mRNA
XM_051200	Homo sapiens fatso (FTO), mRNA
XM_051221	Homo sapiens SPHK1 (sphingosine kinase type 1) interacting protein (SKIP)
XM_051264	Homo sapiens thioredoxin reductase 3 (TXNRD3), mRNA
XM_051271	Homo sapiens family with sequence similarity 10, member A6 (FAM10A6), m
XM_051699	Homo sapiens KIAA1344 (KIAA1344), mRNA
XM_051862	Homo sapiens hypothetical protein from EUROIMAGE 588495 (LOC58489),
XM_051956	Homo sapiens similar to KIAA0592 protein (LOC387680), mRNA
XM_052561	Homo sapiens KIAA1337 protein (KIAA1337), mRNA
XM_052597	Homo sapiens ubiquitin specific protease 53 (USP53), mRNA
XM_052620	Homo sapiens mannosidase alpha class 2B member 2 (KIAA0935), mRNA
XM_053074	Homo sapiens translocase of inner mitochondrial membrane 50 homolog (ye
XM_053177	Homo sapiens similar to alpha tubulin (LOC112714), mRNA Homo sapiens hypothetical protein LOC113230 (LOC113230), mRNA
XM_053966	Florito sapiens hypothetical protein LOOT 19230 (LOOT 19230), minirA

XM 054284	Homo sapiens alpha-tubulin isotype H2-alpha (H2-ALPHA), mRNA
XM_054313	Homo sapiens similar to T-complex protein 1 (LOC155100), mRNA
XM_054983	Homo sapiens KIAA1952 protein (KIAA1952), mRNA
XM 055095	Homo sapiens KIAA1906 protein (KIAA1906), mRNA
XM 055481	Homo sapiens KIAA1915 protein (KIAA1915), mRNA
XM 055636	Homo sapiens KIAA1912 protein (KIAA1912), mRNA
XM 055725	Homo sapiens similar to unc-93 homolog B1; unc93 (C.elegans) homolog B;
XM_055866	Homo sapiens lemur tyrosine kinase 3 (LMTK3), mRNA
XM 056254	Homo sapiens heparan sulfate (glucosamine) 3-O-sulfotransferase 4 (HS3S)
XM 056282	Homo sapiens KIAA1904 protein (KIAA1904), mRNA
XM 056298	Homo sapiens KIAA1889 protein (KIAA1889), mRNA
XM 056434	Homo sapiens tetratricopeptide repeat domain 6 (TTC6), mRNA
XM_056455	Homo sapiens Melanoma associated gene (D2S448), mRNA
XM 056680	Homo sapiens hypothetical protein LOC115749 (LOC115749), mRNA
XM 056681	Homo sapiens similar to ribosomal protein L14; 60S ribosomal protein L14 (L
XM 057040	Homo sapiens KIAA1922 protein (KIAA1922), mRNA
XM_057107	Homo sapiens KIAA1937 protein (KIAA1937), mRNA
XM 057296	Homo sapiens hypothetical protein LOC116064 (LOC116064), mRNA
XM 058332	Homo sapiens similar to hypothetical protein MGC45962 (LOC118670), mRN
XM 058335	Homo sapiens similar to ARF GTPase-activating protein (LOC118704), mRN
XM 058404	Homo sapiens hypothetical protein LOC119548 (LOC119548), mRNA
XM_058426	Homo sapiens hypothetical protein FLJ00012 (FLJ00012), mRNA
XM_058513	Homo sapiens hypothetical protein DKFZp434H2111 (DKFZp434H2111), mF
XM_058581	Homo sapiens similar to hypothetical protein 9530023G02 (LOC121642), mF
XM_058611	Homo sapiens hypothetical LOC150928 (LOC150928), mRNA
XM_058628	Homo sapiens chromosome 14 open reading frame 109 (C14orf109), mRNA
XM_058661	Homo sapiens chromosome 14 open reading frame 35 (C14orf35), mRNA
XM_058677	Homo sapiens similar to 60S ribosomal protein L21 (LOC123031), mRNA
XM_058719	Homo sapiens similar to RIKEN cDNA C630028N24 gene (LOC123688), mR
XM_058720	Homo sapiens similar to junction-mediating and regulatory protein p300 JMY
XM_058721	Homo sapiens hypothetical protein LOC123722 (LOC123722), mRNA
XM_058743	Homo sapiens hypothetical protein LOC123876 (LOC123876), mRNA
XM_058857	Homo sapiens hypothetical LOC124871 (LOC124871), mRNA
XM_058879	Homo sapiens hypothetical protein LOC124976 (LOC124976), mRNA
XM_058931	Homo sapiens similar to hypothetical protein B230399E16 (LOC125704), mF
XM_058956	Homo sapiens Purkinje cell protein 2 (PCP2), mRNA
XM_058961	Homo sapiens trafficking protein particle complex 5 (TRAPPC5), mRNA
XM_058964	Homo sapiens hypothetical protein LOC89887 (LOC89887), mRNA
XM_058967	Homo sapiens similar to Elongation factor 1-delta (EF-1-delta) (Antigen NY-C Homo sapiens hypothetical protein LOC126167 (LOC126167), mRNA
XM_058997	Homo sapiens hypothetical protein LOC126208 (LOC126208), mRNA
XM_058999	Homo sapiens similar to LIM domains containing 1 (LOC126374), mRNA
XM_059037 XM_059047	Homo sapiens hypothetical LOC126435 (LOC126435), mRNA
XM_059051	Homo sapiens hypothetical protein LOC126520 (LOC126520), mRNA
XM_059061	Homo sapiens hypothetical protein LOC126661 (LOC126661), mRNA
XM_059074	Homo saplens hypothetical protein LOC126755 (LOC126755), mRNA
XM_059095	Homo sapiens formin binding protein 2 (FNBP2), mRNA
XM_059104	Homo sapiens similar to CG5435-PA (LOC127003), mRNA
XM_059132	Homo sapiens similar to RIKEN cDNA 4930549C01 (LOC127309), mRNA
XM_059140	Homo sapiens similar to dJ39G22.2 (novel protein) (LOC127391), mRNA
XM_059166	Homo sapiens similar to KIAA1697 protein (LOC127602), mRNA
XM 059256	Homo sapiens hypothetical LOC128499 (LOC128499), mRNA
XM_059267	Homo sapiens similar to RIKEN cDNA 2210009G21 (LOC128710), mRNA
XM_059318	Homo sapiens KIAA1941 protein (KIAA1941), mRNA
XM 059341	Homo sapiens hypothetical protein LOC129293 (LOC129293), mRNA
XM_059368	Homo sapiens hypothetical protein LOC129607 (LOC129607), mRNA
XM_059384	Homo sapiens hypothetical LOC129881 (LOC129881), mRNA

XM_059396	Homo sapiens hypothetical LOC130063 (LOC130063), mRNA
XM_059399	Homo sapiens similar to Calcium and integrin-binding protein 1 (Calmyrin) (D
XM_059438	Homo sapiens similar to CG14894-PA (LOC130502), mRNA
XM_059461	Homo sapiens similar to RIKEN cDNA A230078I05 gene (LOC130612), mRN
XM_059462	Homo sapiens hypothetical LOC130643 (LOC130643), mRNA
XM_059473	Homo sapiens hypothetical LOC130839 (LOC130839), mRNA
XM_059482	Homo sapiens FLJ00133 protein (FLJ00133), mRNA
XM_059492	Homo sapiens hypothetical LOC131076 (LOC131076), mRNA
XM_059548	Homo sapiens similar to SRSR846 (LOC131920), mRNA
XM 059578	Homo sapiens similar to hypothetical protein A430083B19 (LOC132203), mF
XM 059598	Homo sapiens similar to unc-93 homolog B1; unc93 (C.elegans) homolog B;
XM 059608	Homo sapiens hypothetical LOC132870 (LOC132870), mRNA
XM_059617	Homo sapiens similar to MGC69138 protein (LOC132946), mRNA
XM 059669	Homo sapiens similar to ribosomal protein S3a; 40S ribosomal protein S3a; v
XM 059672	Homo sapiens hypothetical LOC133874 (LOC133874), mRNA
XM 059689	Homo sapiens similar to 3110006E14Rik protein (LOC134111), mRNA
XM_059702	Homo sapiens hypothetical protein FLJ36748 (FLJ36748), mRNA
XM_059729	Homo sapiens interleukin-1 receptor-associated kinase 1 binding protein 1 (I
XM 059730	Homo sapiens chromosome 6 open reading frame 159 (C6orf159), mRNA
XM 059776	Homo sapiens FK506 binding protein 1C (FKBP1C), mRNA
XM 059830	Homo sapiens similar to RIKEN cDNA 1700016G05 (LOC136242), mRNA
XM_059832	Homo sapiens hypothetical protein LOC136288 (LOC136288), mRNA
XM 059909	Homo sapiens hypothetical LOC137485 (LOC137485), mRNA
XM 059923	Homo sapiens similar to Nuclear receptor binding factor-2 (LOC137829), mR
XM_059929	Homo sapiens hypothetical protein LOC137886 (LOC137886), mRNA
XM 059954	Homo sapiens chromosome 9 open reading frame 57 (C9orf57), mRNA
XM 059956	Homo sapiens similar to RIKEN cDNA 1700028P14 (LOC138255), mRNA
XM 059972	Homo sapiens hypothetical protein LOC138428 (LOC138428), mRNA
XM 059987	Homo sapiens ankyrin repeat domain 19 (ANKRD19), mRNA
XM_060020	Homo sapiens hypothetical protein BC016683 (LOC139231), mRNA
XM 060054	Homo sapiens similar to XAGE-5 protein (LOC139793), mRNA
XM 060087	Homo sapiens similar to template acylvating factor-I alpha (LOC126598), mF
XM 060104	Homo sapiens similar to RIKEN cDNA 5430400H23 (LOC126637), mRNA
XM_060171	Homo sapiens similar to erythrocyte membrane-associated giant protein anti-
XM 060278	Homo sapiens similar to tight junction protein 3 (zona occludens 3) (LOC126
XM_060301	Homo sapiens similar to Olfactory receptor 2M6 (LOC127059), mRNA
XM 060303	Homo sapiens similar to Olfactory receptor 2M6 (LOC127062), mRNA
XM_060305	Homo sapiens similar to seven transmembrane helix receptor (LOC127064),
XM_060307	Homo sapiens similar to Olfactory receptor 5BF1 (LOC127066), mRNA
XM_060309	Homo sapiens similar to seven transmembrane helix receptor (LOC127068),
XM_060310	Homo sapiens similar to seven transmembrane helix receptor (LOC127069),
XM_060315	Homo sapiens similar to Olfactory receptor 2T4 (LOC127074), mRNA
XM_060316	Homo sapiens olfactory receptor, family 2, subfamily T, member 1 (OR2T1),
XM_060318	Homo sapiens similar to Olfactory receptor 2T11 (LOC127077), mRNA
XM_060328	Homo sapiens similar to 60S ACIDIC RIBOSOMAL PROTEIN P1 (LOC1270)
XM 060417	Homo sapiens similar to 60S ribosomal protein L36 (LOC127295), mRNA
XM_060458	Homo sapiens similar to Olfactory receptor 10J5 (LOC127385), mRNA
XM_060509	Homo sapiens S100 calcium binding protein A7-like 2 (S100A7L2), mRNA
XM_060535	Homo sapiens similar to ribosomal protein L18a; 60S ribosomal protein L18a
XM_060537	Homo sapiens similar to iGb3 synthase (LOC127550), mRNA
XM_060563	Homo sapiens similar to seven transmembrane helix receptor (LOC127608),
XM_060569	Homo sapiens similar to seven transmembrane helix receptor (LOC127600),
XM_060572	Homo sapiens similar to Olfactory receptor 5AV1 (LOC127617), mRNA
XM_060580	Homo sapiens similar to olfactory receptor GA_x6K02SYYHDF-1415-2371 (L
XM_060597	Homo sapiens similar to ciractory receptor GA_xorozs111151-1415-2371 (E
XM_060880	Homo sapiens similar to dJ675G8.1 (novel zinc finger protein) (LOC128208),
XM_060887	Homo sapiens similar to peptidyl-Pro cis trans isomerase (LOC128192), mRI
000007	

XM_060943	Homo sapiens similar to Nuclear transport factor 2 (NTF-2) (Placental proteir
XM_060945	Homo sapiens similar to Olfactory receptor 10T2 (LOC128360), mRNA
XM_060951	Homo sapiens similar to Olfactory receptor 6P1 (LOC128366), mRNA
XM 060952	Homo sapiens similar to seven transmembrane helix receptor (LOC128367),
XM 060953	Homo sapiens similar to Olfactory receptor 10Z1 (LOC128368), mRNA
XM_060955	Homo sapiens similar to seven transmembrane helix receptor (LOC128370),
XM 060956	Homo sapiens similar to Olfactory receptor 6K6 (LOC128371), mRNA
XM 060957	Homo sapiens similar to Olfactory receptor 6N1 (LOC128372), mRNA
XM_060970	Homo sapiens paired related homeobox-like 1 (PRRXL1), mRNA
XM_061055	Homo sapiens hypothetical protein FLJ32938 (FLJ32938), mRNA
XM_061222	Homo sapiens similar to hypothetical protein 9930115F20 (LOC118934), mR
XM_061427	Homo sapiens similar to Typothetical protein 9530 (10120 (2007) 10534), mix Homo sapiens similar to Small nuclear ribonucleoprotein Sm D2 (snRNP con
_	
XM_061542	Homo sapiens similar to 40S ribosomal protein S8 (LOC119563), mRNA
XM_061562	Homo sapiens similar to RIKEN cDNA 4632411J06 (LOC119593), mRNA
XM_061610	Homo sapiens similar to Olfactory receptor 52E2 (LOC119678), mRNA
XM_061611	Homo sapiens similar to Olfactory receptor 52J3 (LOC119679), mRNA
XM_061614	Homo sapiens similar to Olfactory receptor 51L1 (LOC119682), mRNA
XM_061619	Homo sapiens similar to Olfactory receptor 51A7 (LOC119687), mRNA
XM_061624	Homo sapiens similar to Olfactory receptor 51S1 (LOC119692), mRNA
XM_061626	Homo sapiens similar to Olfactory receptor 51F2 (LOC119694), mRNA
XM_061627	Homo sapiens similar to Olfactory receptor 52R1 (LOC119695), mRNA
XM_061628	Homo sapiens similar to seven transmembrane helix receptor (LOC119696),
XM_061656	Homo sapiens similar to olfactory receptor MOR232-3 (LOC119749), mRNA
XM_061666	Homo sapiens similar to Olfactory receptor 4X2 (LOC119764), mRNA
XM_061674	Homo sapiens similar to seven transmembrane helix receptor (LOC119772),
XM_061676	Homo sapiens similar to Olfactory receptor 52K2 (LOC119774), mRNA
XM_061677	Homo sapiens similar to seven transmembrane helix receptor (LOC119775),
XM_061849	Homo sapiens similar to FLJ10251 protein (LOC120082), mRNA
XM_061864	Homo sapiens similar to fat3; fat3 protein (LOC120105), mRNA
XM_061871	Homo sapiens FAT tumor suppressor homolog 3 (Drosophila) (FAT3), mRN/
XM_061880	Homo sapiens similar to autoantigen NOR-90 (LOC120126), mRNA
XM_061888	Homo sapiens similar to autoantigen NOR-90 (LOC120144), mRNA
XM_061890	Homo sapiens similar to tripartite motif-containing 43 (LOC120146), mRNA
XM_061930	Homo sapiens similar to Homeobox protein DBX1 (LOC120237), mRNA
XM_062025	Homo sapiens similar to Hnrpa1 protein (LOC120364), mRNA
XM_062162	Homo sapiens similar to Olfactory receptor 8I2 (LOC120586), mRNA
XM_062263	Homo sapiens similar to seven transmembrane helix receptor (LOC120787),
XM_062269	Homo sapiens similar to Olfactory receptor 56A4 (LOC120793), mRNA
XM 062272	Homo sapiens similar to Olfactory receptor 56A1 (LOC120796), mRNA
XM 062285	Homo sapiens similar to Olfactory receptor 2D3 (LOC120775), mRNA
XM_062286	Homo sapiens similar to seven transmembrane helix receptor (LOC120776),
XM 062300	Homo sapiens similar to RING finger protein 18 (Testis-specific ring-finger pr
XM_062437	Homo sapiens similar to Keratin, type I cytoskeletal 18 (Cytokeratin 18) (K18
XM 062467	Homo sapiens similar to seven transmembrane helix receptor (LOC121129),
XM 062468	Homo sapiens similar to seven transmembrane helix receptor (LOC121130),
XM 062520	Homo sapiens similar to Sucrase-isomaltase, intestinal (LOC121216), mRNA
XM 062553	Homo sapiens similar to Olfactory receptor 10AD1 (LOC121275), mRNA
XM 062594	Homo sapiens similar to seven transmembrane helix receptor (LOC121360),
XM 062598	Homo sapiens similar to Olfactory receptor 10A7 (LOC121364), mRNA
XM_062645	Homo sapiens similar to solute carrier family 9, member 7; nonselective sodi
XM 062735	Homo sapiens forkhead box N4 (FOXN4), mRNA
XM 062788	Homo sapiens similar to histidine-rich protein (LOC121792), mRNA
XM_062871	Homo sapiens hypothetical protein FLJ40176 (FLJ40176), mRNA
XM_062872	Homo sapiens hypothetical protein LOC121952 (LOC121952), mRNA
XM_062890	Homo sapiens similar to peptidyl-Pro cis trans isomerase (LOC121981), mRl
XM_062912	Homo sapiens similar to Mitochondrial import receptor subunit TOM22 homol
XM 062966	Homo sapiens similar to MAP/microtubule affinity-regulating kinase 3 (LOC1:
_	

XM_063084	Homo sapiens similar to peptidylprolyl isomerase A (cyclophilin A) (LOC1223
XM_063123	Homo sapiens similar to hypothetical protein ZC477.8 - Caenorhabditis elega
XM_063138	Homo sapiens similar to RIKEN cDNA 1110013H04 (LOC122438), mRNA
XM_063202	Homo sapiens similar to 60S ribosomal protein L23a (LOC122585), mRNA
XM_063287	Homo sapiens similar to RIKEN cDNA 5830406J20 (LOC122706), mRNA
XM_063308	Homo sapiens similar to Olfactory receptor 4K14 (LOC122740), mRNA
XM_063310	Homo sapiens similar to Olfactory receptor 4L1 (LOC122742), mRNA
XM_063315	Homo sapiens similar to Olfactory receptor 11H6 (LOC122748), mRNA
XM_063336	Homo sapiens similar to cytochrome c oxidase subunit IV (COXIV) pseudoge
XM_063481	Homo sapiens similar to hypothetical gene supported by AK044523 (LOC123
XM_063630	Homo sapiens similar to 60S ribosomal protein L29 (Cell surface heparin bin
XM_063871	Homo sapiens similar to ENSANGP00000013733 (LOC123855), mRNA
XM_063919	Homo sapiens similar to neuronal nonacetlycholine binding subunit (LOC123
XM_064003	Homo sapiens similar to KIAA0565 protein (LOC124149), mRNA
XM_064062	Homo sapiens similar to putative G-protein coupled receptor (LOC124274), r
XM_064152	Homo sapiens sarcalumenin (SRL), mRNA
XM_064177	Homo sapiens similar to Olfactory receptor 4D2 (LOC124538), mRNA
XM_064190	Homo sapiens hypothetical protein FLJ40311 (FLJ40311), mRNA
XM_064257	Homo sapiens similar to HESB like domain containing 2 (LOC124667), mRN
XM_064265	Homo sapiens similar to smooth muscle and non-muscle myosin alkali light c
XM_064298	Homo sapiens hypothetical protein LOC124751 (LOC124751), mRNA
XM_064333	Homo sapiens hypothetical protein LOC124842 (LOC124842), mRNA
XM_064689	Homo sapiens hypothetical LOC125595 (LOC125595), mRNA
XM_064856	Homo sapiens hypothetical protein LOC125893 (LOC125893), mRNA
XM_064859	Homo sapiens similar to 40S ribosomal protein S15a (LOC125910), mRNA
XM_064865	Homo sapiens zinc finger protein 543 (ZNF543), mRNA
XM_064879	Homo sapiens similar to seven transmembrane helix receptor (LOC125958),
XM_064883	Homo sapiens similar to Olfactory receptor 7G1 (Olfactory receptor 19-15) (C
XM_064884	Homo sapiens similar to Olfactory receptor 1M1 (Olfactory receptor 19-6) (Ol
XM_064903	Homo sapiens similar to KIAA2033 protein (LOC126017), mRNA
XM_065006	Homo sapiens similar to ribosomal protein S4, X-linked (LOC126235), mRN/
XM_065026	Homo sapiens similar to FKSG27 (LOC126298), mRNA
XM_065050	Homo sapiens similar to Olfactory receptor 111 (Olfactory receptor 19-20) (Ol
XM_065124	Homo sapiens similar to zinc finger protein 91 (HPF7, HTF10) (LOC126502),
XM_065153	Homo sapiens similar to Olfactory receptor 10H4 (LOC126541), mRNA
XM_065166	Homo sapiens KIAA1957 (KIAA1957), mRNA
XM_065237	Homo sapiens similar to FKSG30 (LOC129439), mRNA
XM_065278	Homo sapiens similar to hypothetical protein (LOC129521), mRNA
XM_065316	Homo sapiens similar to acidic integral membrane protein (LOC129614), mR
XM_065332	Homo sapiens similar to MECT1 protein (LOC129656), mRNA
XM_065348	Homo sapiens caspr5 protein (caspr5), mRNA
XM_065416	Homo sapiens similar to fibulin 1 isoform C precursor (LOC129804), mRNA
XM_065445	Homo sapiens similar to autoantigen NOR-90 (LOC129870), mRNA
XM_065555	Homo sapiens similar to Olfactory receptor 9A4 (LOC130075), mRNA
XM_065722	Homo sapiens similar to 40S ribosomal protein SA (P40) (34/67 kDa laminin
XM_065743	Homo sapiens similar to SWI/SNF-related matrix-associated actin-dependen
XM_065750	Homo sapiens similar to Uncharacterized hematopoietic stem/progenitor cell
XM_065828	Homo sapiens similar to 60S acidic ribosomal protein P1 (LOC130678), mRN
XM_065899	Homo sapiens similar to 60S ribosomal protein L23a (LOC130773), mRNA
XM_065998	Homo sapiens chromosome 20 open reading frame 148 (C20orf148), mRNA
XM_066003	Homo sapiens chromosome 20 open reading frame 122 (C20orf122), mRNA
XM_066040	Homo sapiens ribosomal protein S4-like (RPS4L), mRNA
XM_066058	Homo sapiens chromosome 20 open reading frame 174 (C20orf174), mRNA
XM_066069	Homo sapiens similar to hypothetical protein (LOC128629), mRNA
XM_066102	Homo sapiens ribosomal protein L7a like 2 (RPL7AL2), mRNA
XM_066139	Homo sapiens ribosomal protein L7a-like 3 (RPL7AL3), mRNA
XM_066162	Homo sapiens solute carrier family 25 (mitochondrial carrier; adenine nucleo

XM_066176	Homo sapiens similar to bA218C14.1 (novel protein similar to mouse cystatir
XM_066177	Homo sapiens similar to bA218C14.1 (novel protein similar to mouse cystatir
XM_066189	Homo sapiens gamma-glutamyltransferase-like activity 3 (GGTLA3), mRNA
XM_066243	Homo sapiens hypothetical LOC128939 (LOC128939), mRNA
XM_066339	Homo sapiens hypothetical protein similar to topoisomerase (DNA) III beta (F
XM_066350	Homo sapiens similar to Ovis aries Y chromosome repeat region OY11.1 (3'C
XM_066351	Homo sapiens hypothetical gene similar to gamma-glutamyltransferase-like a
XM_066443	Homo sapiens similar to hypothetical protein MGC15827 (LOC139046), mRN
XM_066452	Homo sapiens similar to plasmolipin (LOC139061), mRNA
XM_066457	Homo sapiens similar to SPANX N member 2 (LOC139067), mRNA
XM_066469	Homo sapiens similar to MAGE family testis and tumor-specific protein (LOC
XM_066484	Homo sapiens similar to testis expressed sequence 13A (LOC139116), mRN
XM_066534	Homo sapiens similar to Diacylglycerol kinase, delta (Diglyceride kinase) (DC
XM_066585	Homo sapiens similar to testis expressed sequence 13A (LOC139263), mRN
XM_066621	Homo sapiens similar to envelope protein (LOC139302), mRNA
XM 066685	Homo sapiens similar to KIAA1387 protein (LOC139420), mRNA
XM 066690	Homo sapiens similar to H326 (LOC139425), mRNA
XM 066695	Homo sapiens similar to ferritin heavy chain - chicken (LOC139431), mRNA
XM_066701	Homo sapiens similar to melanoma antigen, family B, 4; melanoma-associate
XM_066752	Homo sapiens similar to E2F transcription factor 6 isoform a (LOC139542), n
XM 066765	Homo sapiens similar to bA351K23.4 (novel protein) (LOC139562), mRNA
XM 066859	Homo sapiens similar to zinc finger protein 92 (LOC139735), mRNA
XM 066946	Homo sapiens hypothetical protein LOC139886 (LOC139886), mRNA
XM 067076	Homo sapiens similar to testis specific protein, Y-linked (LOC140103), mRN/
XM 067176	Homo sapiens similar to peptidyl-Pro cis trans isomerase (LOC131055), mRi
XM 067193	Homo sapiens similar to microtubule-associated protein 6 (LOC131086), mR
XM 067228	Homo sapiens similar to otolin-1 (LOC131149), mRNA
XM 067369	Homo sapiens similar to abnormal cell LINeage LIN-41, heterochronic gene;
XM_067448	Homo sapiens similar to MEST (LOC131572), mRNA
XM 067503	Homo sapiens similar to peptidyl-Pro cis trans isomerase (LOC131691), mRI
XM 067585	Homo sapiens hypothetical protein LOC131873 (LOC131873), mRNA
XM 067605	Homo sapiens similar to hypothetical protein (LOC131909), mRNA
XM 067904	Homo sapiens similar to Transcription factor BTF3 homolog 3 (LOC132556),
XM_067994	Homo sapiens similar to heat shock factor binding protein 1 (LOC132706), m
XM 068121	Homo sapiens similar to hornerin (LOC132969), mRNA
XM 068229	Homo sapiens similar to 9530003A05 protein (LOC133185), mRNA
XM 068430	Homo sapiens similar to 60S acidic ribosomal protein P1 (LOC133609), mR1
XM 068602	Homo sapiens hypothetical LOC133923 (LOC133923), mRNA
XM 068632	Homo sapiens similar to hypothetical protein MGC52498 (LOC133993), mRN
XM_068681	Homo sapiens similar to seven transmembrane helix receptor (LOC134082),
XM_068682	Homo sapiens similar to Olfactory receptor 2Y1 (LOC134083), mRNA
XM 068889	Homo sapiens similar to eukaryotic translation initiation factor 3 subunit k; mi
XM_068903	Homo sapiens similar to Ten-m2 (LOC134541), mRNA
XM_069035	Homo sapiens chromosome 6 open reading frame 213 (C6orf213), mRNA
XM_069595	Homo sapiens similar to Olfactory receptor 4F3 (LOC135896), mRNA
XM 069609	Homo sapiens similar to Olfactory receptor 9A2 (LOC135924), mRNA
XM 069612	Homo sapiens similar to OG-2 homeodomain protein-like; similar to U65067
XM 069616	Homo sapiens similar to seven transmembrane helix receptor (LOC135941),
XM 069619	Homo sapiens similar to olfactory receptor MOR261-13 (LOC135944), mRN/
XM 069621	Homo sapiens similar to Olfactory receptor 6B1 (Olfactory receptor 7-3) (OR;
XM_069623	Homo sapiens similar to Olfactory receptor 2F2 (Olfactory receptor 7-3) (OR7
XM 069728	Homo sapiens similar to beta-glucuronidase (LOC136132), mRNA
XM_069734	Homo sapiens similar to ribosomal protein L18; 60S ribosomal protein L18 (L
XM_069743	Homo sapiens similar to RIKEN cDNA 1500011L16 (LOC136157), mRNA
XM_069842	Homo sapiens similar to 60S ribosomal protein L15 (LOC136321), mRNA
XM_070233	Homo sapiens similar to ribosomal protein L10a (LOC137107), mRNA
XM 070277	Homo sapiens otoconin 90 (OC90), mRNA

XM_070619	Homo sapiens similar to homeobox protein NKX2-6 (LOC137814), mRNA
XM_071013	Homo sapiens similar to bA62C3.1 (similar to testicular serine protease) (LO
XM_071061	Homo sapiens AT rich interactive domain 3C (BRIGHT- like) (ARID3C), mRN
XM_071093	Homo sapiens similar to Olfactory receptor 13C5 (LOC138799), mRNA
XM_071096	Homo sapiens similar to Olfactory receptor 13C8 (LOC138802), mRNA
XM_071097	Homo sapiens similar to Olfactory receptor 13C3 (LOC138803), mRNA
XM_071098	Homo sapiens similar to Olfactory receptor 13C4 (LOC138804), mRNA
XM_071099	Homo sapiens similar to Olfactory receptor 13F1 (LOC138805), mRNA
XM_071150	Homo sapiens similar to Olfactory receptor 1L8 (LOC138881), mRNA
XM_071151	Homo sapiens similar to Olfactory receptor 1N2 (LOC138882), mRNA
XM_071173	Homo sapiens similar to Hkr1p (LOC138932), mRNA
XM_071201	Homo sapiens similar to Centaurin gamma 2 (LOC138972), mRNA
XM_071712	Homo sapiens hypothetical protein LOC120376 (LOC120376), mRNA
XM_071793	Homo sapiens chromosome 14 open reading frame 28 (C14orf28), mRNA
XM_071866	Homo sapiens cerebellar degeneration-related protein 2, 62kDa (CDR2), mR
XM_072402	Homo sapiens aminoacylase 1-like 2 (ACY1L2), mRNA
XM_072554	Homo sapiens similar to RIKEN cDNA 4833436C18 gene (LOC138729), mR
XM_084000	Homo sapiens mitochondrial carrier triple repeat 2 (MCART2), mRNA
XM_084357	Homo sapiens similar to Hypothetical protein MGC56918 (LOC142827), mRI
XM_084377	Homo sapiens similar to Triacylglycerol lipase, gastric precursor (Gastric lipa
XM_084445	Homo sapiens similar to ARF GTPase-activating protein (LOC143158), mRN
XM_084467	Homo sapiens similar to eukaryotic initiation factor 5A isoform I variant A (LC
XM_084482	Homo sapiens AT rich interactive domain 5B (MRF1-like) (ARID5B), mRNA
XM_084514	Homo sapiens heat shock 90kDa protein 1, alpha-like 3 (HSPCAL3), mRNA
XM_084529	Homo sapiens KIAA0298 gene product (KIAA0298), mRNA
XM_084530	Homo sapiens KIAA0033 protein (KIAA0033), mRNA
XM_084578	Homo sapiens PTPRF interacting protein, binding protein 2 (liprin beta 2) (PF
XM_084672	Homo sapiens similar to CDNA sequence BC021608 (LOC143941), mRNA
XM_084845	Homo sapiens similar to Interferon-induced transmembrane protein 3 (Interfe
XM_084852	Homo sapiens hypothetical LOC144404 (LOC144404), mRNA
XM_084868	Homo sapiens similar to MGC76214 protein (LOC144448), mRNA
XM_084990	Homo sapiens hypothetical LOC144962 (LOC144962), mRNA
XM_085028	Homo sapiens ATPase, Class VI, type 11A (ATP11A), mRNA
XM_085127	Homo sapiens KIAA0599 (KIAA0599), mRNA
XM_085138	Homo sapiens similar to ribosomal protein L3; 60S ribosomal protein L3; HIV
XM_085175	Homo sapiens tetratricopeptide repeat domain 7 like 1 (TTC7L1), mRNA
XM_085200	Homo sapiens hypothetical LOC145660 (LOC145660), mRNA
XM_085231	Homo sapiens hypothetical protein LOC145783 (LOC145783), mRNA
XM_085234	Homo sapiens unc-13 homolog C (C. elegans) (UNC13C), mRNA
XM_085236	Homo sapiens hypothetical LOC145788 (LOC145788), mRNA
XM_085261	Homo sapiens mesoderm posterior 2 (MESP2), mRNA
XM_085290	Homo sapiens similar to golgin-67 isoform c (LOC145988), mRNA
XM_085316	Homo sapiens similar to RIKEN cDNA 1810007E14; EST AA238765 (LOC14
XM_085347	Homo sapiens similar to hypothetical protein FLJ10815 (LOC146167), mRN/
XM_085367	Homo sapiens FLJ40162 protein (FLJ40162), mRNA
XM_085375	Homo sapiens zinc finger protein 90 homolog (mouse) (ZFP90), mRNA
XM_085383	Homo sapiens hypothetical protein LOC146206 (LOC146206), mRNA
XM_085463	Homo sapiens similar to CDNA sequence BC038613 (LOC146439), mRNA
XM_085507	Homo sapiens zinc finger protein 500 (ZNF500), mRNA
XM_085517	Homo sapiens hypothetical LOC146599 (LOC146599), mRNA
XM_085578	Homo sapiens FLJ46675 protein (FLJ46675), mRNA
XM_085596	Homo sapiens zinc finger protein 18 (KOX 11) (ZNF18), mRNA
XM_085606	Homo sapiens similar to CDRT15 protein (LOC146822), mRNA
XM_085634	Homo sapiens hypothetical protein LOC146909 (LOC146909), mRNA
XM_085689	Homo sapiens potassium channel tetramerisation domain containing 11 (KC
XM_085722	Homo sapiens similar to Tripartite motif protein 16 (Estrogen-responsive B bo
XM_085724	Homo sapiens hypothetical LOC147151 (LOC147151), mRNA

XM_085775	Homo sapiens similar to 60S ribosomal protein L7a (Surfeit locus protein 3) (
XM_085777	Homo sapiens similar to additional sex combs like 2; polycomb group protein
XM_085824	Homo saplens hypothetical protein LOC147650 (LOC147650), mRNA
XM_085830	Homo sapiens hypothetical LOC147649 (LOC147649), mRNA
XM_085831	Homo sapiens hypothetical protein LOC147645 (LOC147645), mRNA
XM_085833	Homo sapiens hypothetical protein LOC147646 (LOC147646), mRNA
XM_085836	Homo sapiens KIAA1956 protein (KIAA1956), mRNA
XM_085851	Homo sapiens similar to zinc finger protein 285 (LOC147711), mRNA
XM_085870	Homo sapiens similar to complement C3 protein (GPC3) precursor (LOC147
XM_085929	Homo sapiens Meis1, myeloid ecotropic viral integration site 1 homolog 3 (m
XM_085932	Homo sapiens similar to VPRI645 (LOC147920), mRNA
XM_085967	Homo sapiens hypothetical LOC147942 (LOC147942), mRNA
XM_086001	Homo sapiens similar to Placental tissue protein 13 (Placenta protein 13) (Ga
XM_086046	Homo sapiens hypothetical protein FLJ30663 (FLJ30663), mRNA
XM_086095	Homo sapiens hypothetical protein LOC148203 (LOC148203), mRNA
XM_086186	Homo sapiens hypothetical protein FLJ13815 (FLJ13815), mRNA
XM_086188	Homo sapiens dnaj-like protein (LOC148418), mRNA
XM_086257	Homo sapiens similar to ribosomal protein S15; rat insulinoma gene (LOC14)
XM 086287	Homo sapiens similar to Osteotesticular phosphatase; protein tyrosine phosp
XM 086308	Homo sapiens hypothetical LOC148766 (LOC148766), mRNA
XM_086343	Homo sapiens similar to 60S ribosomal protein L17 (L23) (LOC148854), mRI
XM_086344	Homo sapiens similar to LIM homeo domain transcription factor (LOC148864
XM_086360	Homo sapiens hypothetical LOC148915 (LOC148915), mRNA
XM_086402	Homo sapiens hypothetical LOC149018 (LOC149018), mRNA
XM 086409	Homo sapiens KIAA2025 protein (KIAA2025), mRNA
XM 086494	Homo sapiens similar to similarity to monoubiquitin/carboxy-extension proteir
XM 086604	Homo sapiens similar to CHIA protein (LOC149620), mRNA
XM 086616	Homo sapiens hypothetical LOC149643 (LOC149643), mRNA
XM 086622	Homo sapiens hypothetical LOC149659 (LOC149659), mRNA
XM 086637	Homo sapiens similar to RIKEN cDNA 1700049M11 (LOC149709), mRNA
XM 086648	Homo sapiens similar to dJ579F20.1 (high-mobility group (nonhistone chrom
XM 086650	Homo sapiens protein phosphatase 4, regulatory subunit 1-like (PPP4R1L), r
XM 086725	Homo sapiens similar to bB329D4.2.1 (novel protein similar to a truncated nu
XM 086732	Homo sapiens hypothetical LOC149950 (LOC149950), mRNA
XM 086761	Homo sapiens hypothetical protein LOC150084 (LOC150084), mRNA
XM 086826	Homo sapiens hypothetical protein LOC150368 (LOC150368), mRNA
XM 086876	Homo sapiens similar to MGC5244 protein (LOC150207), mRNA
XM 086879	Homo sapiens hypothetical LOC150371 (LOC150371), mRNA
XM_086894	Homo sapiens hypothetical protein LOC150297 (LOC150297), mRNA
XM_086905	Homo sapiens similar to RIKEN cDNA 2210021J22 (LOC150383), mRNA
XM_086931	Homo sapiens similar to epsilon isoform of 14-3-3 protein (LOC150498), mR
XM_086937	Homo sapiens similar to hypothetical protein A230046P18 (LOC150519), mF
XM_086996	Homo sapiens hypothetical protein LOC150763 (LOC150763), mRNA
XM_087056	Homo sapiens KIAA1841 protein (KIAA1841), mRNA
XM 087062	Homo sapiens similar to 60S acidic ribosomal protein P1 (LOC150978), mRN
XM 087089	Homo sapiens KIAA0007 protein (KIAA0007), mRNA
XM_087097	
	Homo sapiens hypothetical LOC151111 (LOC151111), mRNA
XM_087137	Homo sapiens protein phosphatase 1 regulatory subunit 1A (LOC151242), m
_	Homo sapiens protein phosphatase 1 regulatory subunit 1A (LOC151242), m Homo sapiens hypothetical LOC151256 (LOC151256), mRNA
XM_087137	Homo sapiens protein phosphatase 1 regulatory subunit 1A (LOC151242), m Homo sapiens hypothetical LOC151256 (LOC151256), mRNA Homo sapiens similar to KIAA1641 protein (LOC389008), mRNA
XM_087137 XM_087141	Homo sapiens protein phosphatase 1 regulatory subunit 1A (LOC151242), m Homo sapiens hypothetical LOC151256 (LOC151256), mRNA
XM_087137 XM_087141 XM_087167	Homo sapiens protein phosphatase 1 regulatory subunit 1A (LOC151242), m Homo sapiens hypothetical LOC151256 (LOC151256), mRNA Homo sapiens similar to KIAA1641 protein (LOC389008), mRNA
XM_087137 XM_087141 XM_087167 XM_087171	Homo sapiens protein phosphatase 1 regulatory subunit 1A (LOC151242), m Homo sapiens hypothetical LOC151256 (LOC151256), mRNA Homo sapiens similar to KIAA1641 protein (LOC389008), mRNA Homo sapiens myeloid-associated differentiation marker-like (MYADML), mR
XM_087137 XM_087141 XM_087167 XM_087171 XM_087182	Homo sapiens protein phosphatase 1 regulatory subunit 1A (LOC151242), m Homo sapiens hypothetical LOC151256 (LOC151256), mRNA Homo sapiens similar to KIAA1641 protein (LOC389008), mRNA Homo sapiens myeloid-associated differentiation marker-like (MYADML), mR Homo sapiens hypothetical LOC151363 (LOC151363), mRNA Homo sapiens hypothetical LOC151443 (LOC151443), mRNA Homo sapiens hypothetical LOC151451 (LOC151451), mRNA
XM_087137 XM_087141 XM_087167 XM_087171 XM_087182 XM_087200	Homo sapiens protein phosphatase 1 regulatory subunit 1A (LOC151242), m Homo sapiens hypothetical LOC151256 (LOC151256), mRNA Homo sapiens similar to KIAA1641 protein (LOC389008), mRNA Homo sapiens myeloid-associated differentiation marker-like (MYADML), mR Homo sapiens hypothetical LOC151363 (LOC151363), mRNA Homo sapiens hypothetical LOC151443 (LOC151443), mRNA
XM_087137 XM_087141 XM_087167 XM_087171 XM_087182 XM_087200 XM_087208	Homo sapiens protein phosphatase 1 regulatory subunit 1A (LOC151242), m Homo sapiens hypothetical LOC151256 (LOC151256), mRNA Homo sapiens similar to KIAA1641 protein (LOC389008), mRNA Homo sapiens myeloid-associated differentiation marker-like (MYADML), mR Homo sapiens hypothetical LOC151363 (LOC151363), mRNA Homo sapiens hypothetical LOC151443 (LOC151443), mRNA Homo sapiens hypothetical LOC151451 (LOC151451), mRNA
XM_087137 XM_087141 XM_087167 XM_087171 XM_087182 XM_087200 XM_087208 XM_087225	Homo sapiens protein phosphatase 1 regulatory subunit 1A (LOC151242), m Homo sapiens hypothetical LOC151256 (LOC151256), mRNA Homo sapiens similar to KIAA1641 protein (LOC389008), mRNA Homo sapiens myeloid-associated differentiation marker-like (MYADML), mR Homo sapiens hypothetical LOC151363 (LOC151363), mRNA Homo sapiens hypothetical LOC151443 (LOC151443), mRNA Homo sapiens hypothetical LOC151451 (LOC151451), mRNA Homo sapiens similar to male-specific lethal 3-like 1 isoform a; drosophila Mt

XM_087384	Homo sapiens hypothetical protein LOC152098 (LOC152098), mRNA
XM_087386	Homo sapiens HEG homolog (HEG), mRNA
XM_087483	Homo sapiens hypothetical protein LOC152519 (LOC152519), mRNA
XM_087490	Homo sapiens similar to RIKEN cDNA 4933434I20 (LOC152586), mRNA
XM_087499	Homo sapiens similar to 60S ribosomal protein L7a (Surfeit locus protein 3) (
XM_087500	Homo sapiens similar to NEFA-interacting nuclear protein NIP30 (LOC15266
XM_087553	Homo sapiens similar to WW45 protein (LOC152891), mRNA
XM_087593	Homo sapiens KIAA1430 protein (KIAA1430), mRNA
XM_087671	Homo sapiens hypothetical LOC153441 (LOC153441), mRNA
XM_087672	Homo sapiens KIAA1935 protein (KIAA1935), mRNA
XM_087761	Homo sapiens similar to protein related with psoriasis (LOC153770), mRNA
XM_087762	Homo sapiens hypothetical LOC153778 (LOC153778), mRNA
XM_087800	Homo sapiens similar to CGI-62 protein (LOC153918), mRNA
XM_087804	Homo sapiens synaptotagmin-like 3 (SYTL3), mRNA
XM_087859	Homo sapiens similar to 60S ribosomal protein L21 (LOC154165), mRNA
XM_087901	Homo sapiens similar to RIKEN cDNA 2410004A20 (LOC154288), mRNA
XM_087928	Homo sapiens hypothetical protein LOC154449 (LOC154449), mRNA
XM_088066	Homo sapiens similar to 60S ribosomal protein L35 (LOC154880), mRNA
XM_088072	Homo sapiens hypothetical LOC154907 (LOC154907), mRNA
XM_088118	Homo saplens family with sequence similarity 10, member A7 (FAM10A7), m
XM_088140	Homo sapiens hypothetical protein LOC155054 (LOC155054), mRNA
XM_088142	Homo sapiens chromosome 7 open reading frame 32 (C7orf32), mRNA
XM_088143	Homo sapiens similar to hypothetical protein 4931409K22 (LOC155046), mR
XM_088315	Homo sapiens KIAA0870 protein (KIAA0870), mRNA
XM_088331	Homo sapiens hypothetical protein LOC157570 (LOC157570), mRNA
XM_088367	Homo sapiens similar to SPC18 protein (LOC157708), mRNA
XM_088376	Homo sapiens chromosome 8 open reading frame 7 (C8orf7), mRNA
XM_088459 XM_088491	Homo sapiens KIAA0310 (KIAA0310), mRNA
XM 088516	Homo sapiens similar to Olfactory receptor 1Q1 (Olfactory receptor TPCR10)
XM_088525	Homo sapiens hypothetical LOC158226 (LOC158226), mRNA Homo sapiens chromosome 9 open reading frame 28 (C9orf28), mRNA
XM_088551	Homo sapiens KIAA2026 (KIAA2026), mRNA
XM_088566	Homo sapiens KIAA1958 (KIAA1958), mRNA
XM_088567	Homo sapiens zinc finger protein 483 (ZNF483), mRNA
XM 088578	Homo sapiens RAD26L hypothetical protein, alternatively spliced product; sir
XM_088636	Homo sapiens cylicin, basic protein of sperm head cytoskeleton 1 (CYLC1), I
XM_088677	Homo sapiens similar to UPF3 regulator of nonsense transcripts homolog B i
XM_088679	Homo sapiens hypothetical LOC158812 (LOC158812), mRNA
XM_088680	Homo sapiens hypothetical LOC158813 (LOC158813), mRNA
XM_088683	Homo sapiens similar to bA351K23.5 (novel protein) (LOC158835), mRNA
XM_088684	Homo sapiens similar to Ab2-183 (LOC158830), mRNA
XM_088686	Homo sapiens hypothetical LOC158825 (LOC158825), mRNA
XM_088691	Homo sapiens hypothetical protein LOC158833 (LOC158833), mRNA
XM_088726	Homo sapiens hypothetical LOC158957 (LOC158957), mRNA
XM_088735	Homo sapiens hypothetical protein LOC158983 (LOC158983), mRNA
XM_088768	Homo sapiens similar to F-box only protein 25 (LOC159176), mRNA
XM_088797	Homo sapiens similar to BC035954 protein (LOC163301), mRNA
XM_088817	Homo sapiens similar to Hypothetical protein DJ845O24.1 (LOC374949), mF
XM_088951	Homo sapiens olfactomedin 3 (OLFM3), mRNA
XM_089081	Homo sapiens deleted in neuroblastoma 5 (DNB5), mRNA
XM_089243	Homo sapiens similar to cDNA sequence BC022623 (LOC163933), mRNA
XM_089281	Homo sapiens similar to AD-003 protein (LOC149281), mRNA
XM_089307	Homo sapiens similar to implantation-related RGS2-like protein (LOC164036
XM_089384	Homo sapiens similar to RIKEN cDNA A430025D11 (LOC164118), mRNA
XM_089747	Homo sapiens hypothetical protein FLJ35908 (FLJ35908), mRNA
XM_089858	Homo sapiens similar to Olfactory receptor 52B4 (LOC143496), mRNA
XM_089863	Homo sapiens similar to Olfactory receptor 52l2 (LOC143502), mRNA

XM_089866	Homo sapiens similar to RIKEN cDNA 1500011L16 (LOC143506), mRNA
XM_090203	Homo sapiens similar to Olfactory receptor 2AG1 (HT3) (LOC144125), mRN/
XM_090294	Homo sapiens hypothetical protein FLJ38508 (FLJ38508), mRNA
XM_090844	Homo sapiens hypothetical protein LOC161291 (LOC161291), mRNA
XM_090885	Homo sapiens chromosome 14 open reading frame 42 (C14orf42), mRNA
XM 091156	Homo sapiens similar to Adenosine deaminase CG11994-PA (LOC161823),
XM_091331	Homo sapiens hypothetical protein LOC162073 (LOC162073), mRNA
XM 091809	Homo sapiens similar to WW domain binding protein 2 (LOC147468), mRNA
XM 091830	Homo sapiens similar to G protein-coupled receptor 124 (LOC162835), mRN
XM 091886	Homo sapiens similar to Zinc finger protein Kr18 (HKr18) (LOC162962), mR1
XM_091914	Homo sapiens hypothetical protein LOC162993 (LOC162993), mRNA
XM 092019	Homo sapiens similar to BC331191_1 (LOC163131), mRNA
XM 092241	Homo sapiens similar to Olfactory receptor 6B3 (LOC150681), mRNA
XM_092267	Homo sapiens similar to keratin 8; cytokeratin 8; keratin, type II cytoskeletal {
XM_092342	Homo sapiens hypothetical protein FLJ39061 (FLJ39061), mRNA
XM 092553	Homo sapiens similar to autoantigen NOR-90 (LOC151320), mRNA
XM 092681	Homo sapiens similar to MLRQ subunit of the NADH ubiquinone oxidoreduct
XM_092778	Homo sapiens hypothetical protein LOC164395 (LOC164395), mRNA
XM 092995	Homo sapiens zinc finger protein 21 (KOX 14) (ZNF21), mRNA
XM_093024	Homo sapiens hypothetical protein LOC169981 (LOC169981), mRNA
XM 093087	Homo sapiens similar to transcription factor (p38 interacting protein) (LOC17
XM 093644	Homo sapiens similar to NACHT-, LRR- and PYD-containing protein 2 (PYRI
XM 093813	Homo sapiens similar to hypothetical protein (LOC166348), mRNA
XM 093839	Homo sapiens KIAA0826 protein (KIAA0826), mRNA
XM_093895	Homo sapiens KIAA0882 protein (KIAA0882), mRNA
XM 094066	Homo sapiens similar to RIKEN cDNA 5430419M09 (LOC152877), mRNA
XM 094074	Homo sapiens similar to embryonic blastocoelar extracellular matrix protein p
XM 094581	Homo sapiens SEC24 related gene family, member A (S. cerevisiae) (SEC24
XM 094794	Homo sapiens dapper homolog 2, antagonist of beta-catenin (xenopus) (DAC
XM 095568	Homo sapiens hypothetical protein DKFZp762C1112 (DKFZp762C1112), mF
XM 095746	Homo sapiens forkhead box D4 (FOXD4), mRNA
XM 095965	Homo sapiens hypothetical protein LOC169834 (LOC169834), mRNA
XM 095991	Homo sapiens chromosome 9 open reading frame 81 (C9orf81), mRNA
XM 096317	Homo sapiens chromosome 10 open reading frame 73 (C10orf73), mRNA
XM 096376	Homo sapiens hypothetical LOC143034 (LOC143034), mRNA
XM 096472	Homo sapiens similar to RIKEN cDNA 1700021K07 (LOC143678), mRNA
XM 096516	Homo sapiens hypothetical LOC143970 (LOC143970), mRNA
XM 096642	Homo sapiens hypothetical LOC144631 (LOC144631), mRNA
XM_096676	Homo sapiens hypothetical LOC144762 (LOC144762), mRNA
XM 096688	Homo sapiens hypothetical protein LOC144920 (LOC144920), mRNA
XM 096733	Homo sapiens chromosome 14 open reading frame 72 (C14orf72), mRNA
XM_096734	Homo sapiens hypothetical LOC145197 (LOC145197), mRNA
XM_096852	Homo sapiens hypothetical LOC145741 (LOC145741), mRNA
XM_096864	Homo sapiens hypothetical LOC145780 (LOC145780), mRNA
XM 096883	Homo sapiens hypothetical LOC145846 (LOC145846), mRNA
XM_096885	Homo sapiens similar to ENSANGP00000021391 (LOC145853), mRNA
XM_096919	Homo sapiens similar to SH2 domain protein 2A (T cell-specific adapter protein
XM_097065	Homo sapiens hypothetical LOC146701 (LOC146701), mRNA
XM_097265	Homo sapiens hypothetical protein LOC147670 (LOC147670), mRNA
XM 097278	Homo sapiens hypothetical LOC147710 (LOC147710), mRNA
XM_097347	Homo sapiens hypothetical LOC147941 (LOC147941), mRNA
XM_097351	Homo sapiens hypothetical LOC147975 (LOC147975), mRNA
XM_097580	Homo sapiens hypothetical protein LOC149086 (LOC149086), mRNA
XM 097622	Homo sapiens similar to RIKEN cDNA C030014K22 gene (LOC149297), mR
XM_097725	Homo sapiens hypothetical LOC149738 (LOC149738), mRNA
XM_097729	Homo sapiens hypothetical LOC149704 (LOC149704), mRNA
XM_097736	
_	

XM 097753	Homo sapiens hypothetical LOC149913 (LOC149913), mRNA
XM 097792	Homo sapiens hypothetical LOC150051 (LOC150051), mRNA
XM 097886	Homo sapiens hypothetical protein LOC150223 (LOC150223), mRNA
XM_097977	Homo sapiens hypothetical protein LOC150946 (LOC150946), mRNA
_	Homo sapiens hypothetical LOC151154 (LOC151154), mRNA
XM_098008	Homo sapiens hypothetical LOC151164 (LOC151164), mRNA
XM_098030	Homo sapiens hypothetical LOC151760 (LOC151760), mRNA
XM_098117	
XM_098163	Homo sapiens hypothetical LOC152118 (LOC152118), mRNA
XM_098164	Homo sapiens hypothetical LOC152122 (LOC152122), mRNA
XM_098238	Homo sapiens SH3 domain protein D19 (DKFZp434D0215), mRNA
XM_098317	Homo sapiens hypothetical LOC153134 (LOC153134), mRNA
XM_098350	Homo sapiens hypothetical LOC153297 (LOC153297), mRNA
XM_098368	Homo sapiens KIAA1317 protein (KIAA1317), mRNA
XM_098406	Homo sapiens hypothetical LOC153630 (LOC153630), mRNA
XM_098450	Homo sapiens hypothetical LOC153959 (LOC153959), mRNA
XM_098512	Homo sapiens hypothetical LOC154323 (LOC154323), mRNA
XM_098625	Homo sapiens hypothetical LOC154872 (LOC154872), mRNA
XM_098762	Homo sapiens KIAA1416 protein (KIAA1416), mRNA
XM_098828	Homo sapiens hypothetical LOC157813 (LOC157813), mRNA
XM_098847	Homo sapiens hypothetical LOC157943 (LOC157943), mRNA
XM_098940	Homo sapiens similar to zinc finger protein 11b (KOX 2) (LOC158431), mRN
XM_098980	Homo sapiens hypothetical LOC158730 (LOC158730), mRNA
XM_099034	Homo sapiens hypothetical LOC159170 (LOC159170), mRNA
XM_104657	Homo sapiens similar to RIKEN cDNA 1700019P01 (LOC164714), mRNA
XM_106386	Homo sapiens KIAA1345 protein (KIAA1345), mRNA
XM_113228	Homo sapiens similar to Proprotein convertase subtilisin/kexin type 7 precurs
XM_113596	Homo sapiens similar to CG32542-PA (LOC196752), mRNA
XM_113625	Homo sapiens hypothetical protein LOC195977 (LOC195977), mRNA
XM_113641	Homo sapiens hypothetical protein LOC196051 (LOC196051), mRNA
XM_113678	Homo sapiens nucleoporin 160kDa (NUP160), mRNA
XM_113696	Homo sapiens hypothetical protein LOC196337 (LOC196337), mRNA
XM_113706	Homo sapiens dynein, axonemal, heavy polypeptide 10 (DNAH10), mRNA
XM_113708	Homo sapiens hypothetical protein LOC196394 (LOC196394), mRNA
XM_113743	Homo sapiens hypothetical protein DKFZp313M0720 (DKFZp313M0720), ml
XM 113763	Homo sapiens chromosome 14 open reading frame 125 (C14orf125), mRNA
XM 113776	Homo sapiens hypothetical protein LOC196913 (LOC196913), mRNA
XM 113796	Homo sapiens hypothetical protein LOC196996 (LOC196996), mRNA
XM_113825	Homo sapiens similar to RIKEN cDNA 4930424G05 (LOC197135), mRNA
XM 113871	Homo sapiens hypothetical protein LOC197350 (LOC197350), mRNA
XM 113912	Homo sapiens similar to DKFZP566O084 protein (LOC201140), mRNA
XM 113916	Homo sapiens similar to hypothetical protein A930006D11 (LOC201181), mF
XM_113947	
_	Homo sapiens KIAA0565 gene product (KIAA0565), mRNA
XM 113967	Homo sapiens KIAA0565 gene product (KIAA0565), mRNA Homo sapiens similar to Rab12 protein (LOC201475), mRNA
XM_113967 XM_113971	Homo sapiens similar to Rab12 protein (LOC201475), mRNA
XM_113971	Homo sapiens similar to Rab12 protein (LOC201475), mRNA Homo sapiens similar to B230208J24Rik protein (LOC201501), mRNA
XM_113971 XM_113978	Homo sapiens similar to Rab12 protein (LOC201475), mRNA Homo sapiens similar to B230208J24Rik protein (LOC201501), mRNA Homo sapiens hypothetical protein LOC284352 (LOC284352), mRNA
XM_113971 XM_113978 XM_114000	Homo sapiens similar to Rab12 protein (LOC201475), mRNA Homo sapiens similar to B230208J24Rik protein (LOC201501), mRNA Homo sapiens hypothetical protein LOC284352 (LOC284352), mRNA Homo sapiens ankyrin repeat domain 24 (ANKRD24), mRNA
XM_113971 XM_113978 XM_114000 XM_114047	Homo sapiens similar to Rab12 protein (LOC201475), mRNA Homo sapiens similar to B230208J24Rik protein (LOC201501), mRNA Homo sapiens hypothetical protein LOC284352 (LOC284352), mRNA Homo sapiens ankyrin repeat domain 24 (ANKRD24), mRNA Homo sapiens similar to KIAA0454 protein (LOC199882), mRNA
XM_113971 XM_113978 XM_114000 XM_114047 XM_114067	Homo sapiens similar to Rab12 protein (LOC201475), mRNA Homo sapiens similar to B230208J24Rik protein (LOC201501), mRNA Homo sapiens hypothetical protein LOC284352 (LOC284352), mRNA Homo sapiens ankyrin repeat domain 24 (ANKRD24), mRNA Homo sapiens similar to KIAA0454 protein (LOC199882), mRNA Homo sapiens similar to expressed sequence AV028368 (LOC199953), mRN
XM_113971 XM_113978 XM_114000 XM_114047 XM_114067 XM_114087	Homo sapiens similar to Rab12 protein (LOC201475), mRNA Homo sapiens similar to B230208J24Rik protein (LOC201501), mRNA Homo sapiens hypothetical protein LOC284352 (LOC284352), mRNA Homo sapiens ankyrin repeat domain 24 (ANKRD24), mRNA Homo sapiens similar to KIAA0454 protein (LOC199882), mRNA Homo sapiens similar to expressed sequence AV028368 (LOC199953), mRN Homo sapiens KIAA1836 protein (KIAA1836), mRNA
XM_113971 XM_113978 XM_114000 XM_114047 XM_114067 XM_114087 XM_114090	Homo sapiens similar to Rab12 protein (LOC201475), mRNA Homo sapiens similar to B230208J24Rik protein (LOC201501), mRNA Homo sapiens hypothetical protein LOC284352 (LOC284352), mRNA Homo sapiens ankyrin repeat domain 24 (ANKRD24), mRNA Homo sapiens similar to KIAA0454 protein (LOC199882), mRNA Homo sapiens similar to expressed sequence AV028368 (LOC199953), mRN Homo sapiens KIAA1836 protein (KIAA1836), mRNA Homo sapiens similar to KIAA0454 protein (LOC200019), mRNA
XM_113971 XM_113978 XM_114000 XM_114047 XM_114067 XM_114087 XM_114090 XM_114129	Homo sapiens similar to Rab12 protein (LOC201475), mRNA Homo sapiens similar to B230208J24Rik protein (LOC201501), mRNA Homo sapiens hypothetical protein LOC284352 (LOC284352), mRNA Homo sapiens ankyrin repeat domain 24 (ANKRD24), mRNA Homo sapiens similar to KIAA0454 protein (LOC199882), mRNA Homo sapiens similar to expressed sequence AV028368 (LOC199953), mRN Homo sapiens KIAA1836 protein (KIAA1836), mRNA Homo sapiens similar to KIAA0454 protein (LOC200019), mRNA Homo sapiens hypothetical LOC200159 (LOC200159), mRNA
XM_113971 XM_113978 XM_114000 XM_114047 XM_114067 XM_114087 XM_114090 XM_114129 XM_114152	Homo sapiens similar to Rab12 protein (LOC201475), mRNA Homo sapiens similar to B230208J24Rik protein (LOC201501), mRNA Homo sapiens hypothetical protein LOC284352 (LOC284352), mRNA Homo sapiens ankyrin repeat domain 24 (ANKRD24), mRNA Homo sapiens similar to KIAA0454 protein (LOC199882), mRNA Homo sapiens similar to expressed sequence AV028368 (LOC199953), mRN Homo sapiens KIAA1836 protein (KIAA1836), mRNA Homo sapiens similar to KIAA0454 protein (LOC200019), mRNA Homo sapiens hypothetical LOC200159 (LOC200159), mRNA Homo sapiens hypothetical protein LOC200205 (LOC200205), mRNA
XM_113971 XM_113978 XM_114000 XM_114047 XM_114067 XM_114087 XM_114090 XM_114129 XM_114152 XM_114156	Homo sapiens similar to Rab12 protein (LOC201475), mRNA Homo sapiens similar to B230208J24Rik protein (LOC201501), mRNA Homo sapiens hypothetical protein LOC284352 (LOC284352), mRNA Homo sapiens ankyrin repeat domain 24 (ANKRD24), mRNA Homo sapiens similar to KIAA0454 protein (LOC199882), mRNA Homo sapiens similar to expressed sequence AV028368 (LOC199953), mRN Homo sapiens KIAA1836 protein (KIAA1836), mRNA Homo sapiens similar to KIAA0454 protein (LOC200019), mRNA Homo sapiens hypothetical LOC200159 (LOC200159), mRNA Homo sapiens hypothetical protein LOC200205 (LOC200205), mRNA Homo sapiens hypothetical protein LOC200213 (LOC200213), mRNA
XM_113971 XM_113978 XM_114000 XM_114047 XM_114067 XM_114087 XM_114090 XM_114129 XM_114152 XM_114156 XM_114158	Homo sapiens similar to Rab12 protein (LOC201475), mRNA Homo sapiens similar to B230208J24Rik protein (LOC201501), mRNA Homo sapiens hypothetical protein LOC284352 (LOC284352), mRNA Homo sapiens ankyrin repeat domain 24 (ANKRD24), mRNA Homo sapiens similar to KIAA0454 protein (LOC199882), mRNA Homo sapiens similar to expressed sequence AV028368 (LOC199953), mRN Homo sapiens KIAA1836 protein (KIAA1836), mRNA Homo sapiens similar to KIAA0454 protein (LOC200019), mRNA Homo sapiens hypothetical LOC200159 (LOC200159), mRNA Homo sapiens hypothetical protein LOC200205 (LOC200205), mRNA Homo sapiens hypothetical protein LOC200213 (LOC200213), mRNA Homo sapiens similar to Polyadenylate-binding protein 2 (Poly(A)-binding pro
XM_113971 XM_113978 XM_114000 XM_114047 XM_114067 XM_114090 XM_114129 XM_114152 XM_114156 XM_114158 XM_114166	Homo sapiens similar to Rab12 protein (LOC201475), mRNA Homo sapiens similar to B230208J24Rik protein (LOC201501), mRNA Homo sapiens hypothetical protein LOC284352 (LOC284352), mRNA Homo sapiens ankyrin repeat domain 24 (ANKRD24), mRNA Homo sapiens similar to KIAA0454 protein (LOC199882), mRNA Homo sapiens similar to expressed sequence AV028368 (LOC199953), mRN Homo sapiens KIAA1836 protein (KIAA1836), mRNA Homo sapiens similar to KIAA0454 protein (LOC200019), mRNA Homo sapiens hypothetical LOC200159 (LOC200159), mRNA Homo sapiens hypothetical protein LOC200205 (LOC200205), mRNA Homo sapiens similar to Polyadenylate-binding protein 2 (Poly(A)-binding protein sapiens similar to KIAA0386 (LOC200230), mRNA
XM_113971 XM_113978 XM_114000 XM_114047 XM_114067 XM_114087 XM_114090 XM_114129 XM_114152 XM_114156 XM_114158	Homo sapiens similar to Rab12 protein (LOC201475), mRNA Homo sapiens similar to B230208J24Rik protein (LOC201501), mRNA Homo sapiens hypothetical protein LOC284352 (LOC284352), mRNA Homo sapiens ankyrin repeat domain 24 (ANKRD24), mRNA Homo sapiens similar to KIAA0454 protein (LOC199882), mRNA Homo sapiens similar to expressed sequence AV028368 (LOC199953), mRN Homo sapiens KIAA1836 protein (KIAA1836), mRNA Homo sapiens similar to KIAA0454 protein (LOC200019), mRNA Homo sapiens hypothetical LOC200159 (LOC200159), mRNA Homo sapiens hypothetical protein LOC200205 (LOC200205), mRNA Homo sapiens hypothetical protein LOC200213 (LOC200213), mRNA Homo sapiens similar to Polyadenylate-binding protein 2 (Poly(A)-binding pro

XM_114297	Homo sapiens hypothetical protein FLJ10599 (FLJ10599), mRNA
XM_114301	Homo sapiens similar to beta-1,4-mannosyltransferase; beta-1,4 mannosyltra
XM_114303	Homo sapiens GRP1-binding protein GRSP1 (GRSP1), mRNA
XM_114317	Homo sapiens similar to RIKEN cDNA 3110001N18 (LOC200916), mRNA
XM_114355	Homo sapiens similar to esterase/N-deacetylase (EC 3.5.1), 50K hepatic - I
XM 114415	Homo sapiens similar to Glycerol kinase, testis specific 1 (ATP:glycerol 3-ph
XM_114418	Homo sapiens KIAA1729 protein (KIAA1729), mRNA
XM_114430	Homo sanions hypothetical protein (NAA1729), MKNA
XM_114432	Homo sapiens hypothetical protein LOC202051 (LOC202051), mRNA
XM_114432 XM_114447	Homo sapiens KIAA1281 protein (KIAA1281), mRNA
XM_114456	Homo sapiens KIAA1999 protein (KIAA1999), mRNA
_	Homo sapiens hypothetical protein LOC202181 (LOC202181), mRNA
XM_114481 XM_114560	Homo sapiens hypothetical LOC202404 (LOC202404), mRNA
	Homo sapiens similar to hypothetical protein MGC35361 (LOC202802), mRN
XM_114611	Homo sapiens hypothetical protein KIAA1833 (KIAA1833), mRNA
XM_114618	Homo sapiens hypothetical protein LOC203069 (LOC203069), mRNA
XM_114621	Homo sapiens similar to RIKEN cDNA 4930578I06 (LOC203076), mRNA
XM_114685	Homo sapiens chromosome 9 open reading frame 21 (C9orf21), mRNA
XM_114723	Homo sapiens similar to PAGE-5 protein (LOC203569), mRNA
XM_114735	Homo sapiens complement component (3b/4b) receptor 1-like (CR1L), mRN
XM_114973	Homo sapiens hypothetical protein LOC203806 (LOC203806), mRNA
XM_114987	Homo sapiens similar to RIKEN cDNA 1500011L16 (LOC196120), mRNA
XM_115009	Homo sapiens hypothetical protein LOC203859 (LOC203859), mRNA
XM_115092	Homo sapiens similar to Olfactory receptor 56B4 (LOC196335), mRNA
XM_115100	Homo sapiens similar to autoantigen NOR-90 (LOC196346), mRNA
XM_115715	Homo sapiens similar to ENSANGP0000000189 (LOC200493), mRNA
XM_115760	Homo sapiens similar to h2-calponin (LOC205272), mRNA
XM_115769	Homo sapiens similar to chromosome 20 open reading frame 81 (LOC20059
XM_115897	Homo sapiens similar to high mobility group protein homolog HMG4 (LOC20:
XM_115925	Homo sapiens similar to trophinin; melanoma antigen, family D, 3; trophinin-2
XM_115974	Homo sapiens similar to hypothetical protein H41 (LOC200842), mRNA
XM_116036	Homo sapiens similar to Gamma-aminobutyric-acid receptor rho-3 subunit pr
XM_116384	Homo sapiens similar to Transcription initiation factor TFIID 28 kDa subunit (
XM_116396	Homo sapiens similar to peptidylprolyl isomerase A (cyclophilin A) (LOC2022
XM_116497	Homo sapiens chromosome 6 open reading frame 163 (C6orf163), mRNA
XM_116623	Homo sapiens similar to Ubiquinol-cytochrome C reductase iron-sulfur subur
XM_116936	Homo sapiens similar to RIKEN cDNA 2310038H17 (LOC196541), mRNA
XM_116970	Homo sapiens similar to hypothetical protein (LOC196994), mRNA
XM_116971	Homo sapiens hypothetical protein LOC196993 (LOC196993), mRNA
XM_116980	Homo sapiens hypothetical LOC197049 (LOC197049), mRNA
XM_117014	Homo sapiens hypothetical LOC197317 (LOC197317), mRNA
XM_117030	Homo sapiens hypothetical LOC197387 (LOC197387), mRNA
XM_117044	Homo sapiens hypothetical LOC201109 (LOC201109), mRNA
XM_117056	Homo sapiens hypothetical LOC201201 (LOC201201), mRNA
XM_117100	Homo sapiens hypothetical LOC201484 (LOC201484), mRNA
XM_117112	Homo sapiens hypothetical LOC199680 (LOC199680), mRNA
XM_117117	Homo sapiens hypothetical gene FLJ13072 (FLJ13072), mRNA
XM_117152	Homo sapiens hypothetical LOC199897 (LOC199897), mRNA
XM_117174	Homo sapiens hypothetical protein LOC200010 (LOC200010), mRNA
XM_117213 XM_117224	Homo sapiens hypothetical LOC200292 (LOC200292), mRNA
XM_117236	Homo sapiens similar to RIKEN cDNA 0610009J22 (LOC200312), mRNA
XM_117239	Homo sapiens hypothetical LOC200475 (LOC200475), mRNA
XM_117259 XM_117257	Homo sapiens hypothetical LOC200491 (LOC200491), mRNA
XM_117266	Homo sapiens hypothetical LOC200624 (LOC200624), mRNA
XM 117268	Homo sapiens hypothetical LOC200726 (LOC200726), mRNA
XM_117294	Homo sapiens hypothetical LOC200731 (LOC200731), mRNA
XM_117408	Homo sapiens hypothetical protein LOC200933 (LOC200933), mRNA Homo sapiens hypothetical LOC202546 (LOC202546), mRNA
, <u>, , , , , , , , , , , , , , , , ,</u>	Tiomo dapiena hypothetical E00202040 (E00202040), MKNA

XM_117451	Homo sapiens hypothetical LOC202775 (LOC202775), mRNA
XM_117514	Homo sapiens hypothetical LOC203235 (LOC203235), mRNA
XM_117548	Homo sapiens hypothetical LOC203413 (LOC203413), mRNA
XM_165401	Homo sapiens similar to heat shock 70kD protein binding protein; progestero
XM_165448	Homo sapiens similar to BLOCK 23 (LOC220717), mRNA
XM_165511	Homo sapiens similar to Fatty acid-binding protein, epidermal (E-FABP) (Psc
XM_165534	Homo sapiens similar to methyltransferase-like protein 1 isoform c; D1075-lik
XM_165921	Homo sapiens similar to HP95 (LOC219392), mRNA
XM_165973	Homo sapiens ubiquitin specific protease 24 (USP24), mRNA
XM_166086	Homo sapiens neuregulin 3 (NRG3), mRNA
XM_166090	Homo sapiens placenta-specific 9 (PLAC9), mRNA
XM_166103	Homo sapiens DNA2 DNA replication helicase 2-like (yeast) (DNA2L), mRNA
XM_166110	Homo sapiens G protein-coupled receptor 158 (GPR158), mRNA
XM_166125	Homo sapiens KIAA protein (similar to mouse paladin) (KIAA1274), mRNA
XM_166132	Homo sapiens KIAA1462 (KIAA1462), mRNA
XM_166138	Homo sapiens ankyrin repeat domain 16 (ANKRD16), mRNA
XM_166140	Homo sapiens Scm-like with four mbt domains 2 (SFMBT2), mRNA
XM_166160	Homo sapiens similar to chromosome 6 open reading frame 182 (LOC22101
XM_166164	Homo sapiens hypothetical protein LOC219854 (LOC219854), mRNA
XM_166203	Homo sapiens similar to RIKEN cDNA 1110030K22 (LOC219537), mRNA
XM_166213	Homo sapiens KIAA0937 protein (KIAA0937), mRNA
XM_166227	Homo saplens macrophage expressed gene 1 (MPEG1), mRNA Homo sapiens odd Oz/ten-m homolog 4 (ODZ4), mRNA
XM_166254	
XM_166256	Homo sapiens microtubule-associated protein 6 (MAP6), mRNA
XM_166270	Homo sapiens KIAA0774 (KIAA0774), mRNA
XM_166300	Homo sapiens absent in melanoma 1 (AIM1), mRNA
XM_166320	Homo sapiens KIAA1553 (KIAA1553), mRNA Homo sapiens chromosome 6 open reading frame 129 (C6orf129), mRNA
XM_166346 XM 166372	Homo sapiens leucine rich repeat and fibronectin type III domain containing:
XM_166376	Homo sapiens KIAA1949 protein (KIAA1949), mRNA
XM_166420	Homo sapiens RPEL repeat containing 1 (RPEL1), mRNA
XM_166432	Homo sapiens hypothetical protein LOC221442 (LOC221442), mRNA
XM 166443	Homo sapiens tudor domain containing 6 (TDRD6), mRNA
XM_166450	Homo sapiens bromodomain and PHD finger containing, 3 (BRPF3), mRNA
XM 166451	Homo sapiens KIAA1586 (KIAA1586), mRNA
XM_166453	Homo sapiens tau tubulin kinase 1 (TTBK1), mRNA
XM_166479	Homo sapiens KIAA0240 (KIAA0240), mRNA
XM_166508	Homo saplens TWIST neighbor (TWISTNB), mRNA
XM_166523	Homo sapiens tweety homolog 3 (Drosophila) (TTYH3), mRNA
XM_166527	Homo sapiens KIAA0415 gene product (KIAA0415), mRNA
XM_166529	Homo sapiens glucocorticoid induced transcript 1 (GLCCI1), mRNA
XM_166532	Homo sapiens KIAA1950 protein (KIAA1950), mRNA
XM_166571	Homo sapiens KIAA0363 protein (KIAA0363), mRNA
XM_166573	Homo sapiens KIAA0895 protein (KIAA0895), mRNA
XM_166630	Homo sapiens similar to KIAA2020 protein (LOC387692), mRNA
XM_166659	Homo sapiens hypothetical protein LOC220213 (LOC220213), mRNA
XM_166707	
XM_166720	Homo saplens similar to Protein C21orf59 (LOC220998), mRNA
XM_166747	Homo sapiens similar to KIAA1838 (LOC219797), mRNA
XM_166757	Homo sapiens similar to Olfactory receptor 8B12 (LOC219858), mRNA
XM_166767	Homo sapiens similar to seven transmembrane helix receptor (LOC219865),
XM_166776	
XM_166777	Homo sapiens similar to Olfactory receptor 10G9 (LOC219870), mRNA
XM_166780	Homo sapiens similar to Olfactory receptor 10S1 (LOC219873), mRNA
XM_166781	Homo sapiens similar to Olfactory receptor 6T1 (LOC219874), mRNA
XM_166782	
XM_166805	Homo sapiens similar to seven transmembrane helix receptor (LOC219417),

XM_166808	Homo sapiens similar to Olfactory receptor 5AS1 (LOC219447), mRNA
XM_166813	Homo sapiens similar to Olfactory receptor 8K5 (LOC219453), mRNA
XM_166818	Homo sapiens similar to hypothetical protein FLJ13194 (LOC219462), mRN/
XM_166820	Homo sapiens similar to Olfactory receptor 5T2 (LOC219464), mRNA
XM_166823	Homo sapiens similar to Olfactory receptor 8H1 (LOC219469), mRNA
XM_166825	Homo sapiens similar to Olfactory receptor 8K3 (LOC219473), mRNA
XM_166829	Homo sapiens similar to Olfactory receptor 8J1 (LOC219477), mRNA
XM_166831	Homo sapiens similar to seven transmembrane helix receptor (LOC219479),
XM_166834	Homo sapiens similar to Olfactory receptor 5M3 (LOC219482), mRNA
XM 166835	Homo sapiens similar to Olfactory receptor 5M8 (LOC219484), mRNA
XM 166845	Homo sapiens similar to Olfactory receptor 5AR1 (LOC219493), mRNA
XM 166856	Homo sapiens similar to expressed sequence Al841794 (LOC219527), mRN
XM_166868	Homo sapiens similar to Olfactory receptor 4C16 (LOC219428), mRNA
XM_166869	Homo sapiens similar to seven transmembrane helix receptor (LOC219429),
XM_166871	Homo sapiens similar to Olfactory receptor 4S2 (LOC219431), mRNA
XM_166872	Homo sapiens similar to Olfactory receptor 452 (LOC219431), mRNA
XM_166877	
XM_166878	Homo sapiens similar to Olfactory receptor 5D14 (LOC219436), mRNA
XM 166879	Homo sapiens similar to Olfactory receptor 5L1 (OST262) (LOC219437), mR
_	Homo sapiens similar to Olfactory receptor 5D18 (LOC219438), mRNA
XM_166898	Homo sapiens similar to Olfactory receptor 5A2 (LOC219981), mRNA
XM_166899	Homo sapiens similar to Olfactory receptor 5A1 (OST181) (LOC219982), mR
XM_166900	Homo sapiens similar to Olfactory receptor 4D6 (LOC219983), mRNA
XM_166903	Homo sapiens similar to seven transmembrane helix receptor (LOC219986),
XM_166910	Homo sapiens similar to Olfactory receptor 6Q1 (LOC219952), mRNA
XM_166912	Homo sapiens similar to Olfactory receptor 911 (LOC219954), mRNA
XM_166914	Homo sapiens similar to Olfactory receptor 9Q1 (LOC219956), mRNA
XM_166915	Homo sapiens similar to seven transmembrane helix receptor (LOC219957),
XM_166916	Homo sapiens similar to Olfactory receptor 1S2 (LOC219958), mRNA
XM_166917	Homo sapiens similar to Olfactory receptor 1S1 (LOC219959), mRNA
XM_166918	Homo sapiens similar to Olfactory receptor 10Q1 (LOC219960), mRNA
XM_166923 XM_166926	Homo sapiens similar to Olfactory receptor 5B17 (LOC219965), mRNA
XM_166966	Homo sapiens similar to olfactory receptor MOR202-4 (LOC219968), mRNA
XM_166971	Homo sapiens similar to Meningioma-expressed antigen 6/11 (MEA6) (MEA1
XM_167001	Homo sapiens similar to Leucine-rich repeat protein SHOC-2 (Ras-binding pr
XM_167044	Homo sapiens similar to 40S ribosomal protein S26 (LOC219542), mRNA Homo sapiens solute carrier family 35, member F1 (SLC35F1), mRNA
XM_167072	Home capiers benze diagonine recentor (norishers) like 4 (DZDDI4), we DNA
XM_167072 XM_167147	Homo sapiens benzodiazapine receptor (peripheral)-like 1 (BZRPL1), mRNA Homo sapiens zinc finger protein 390 (ZNF390), mRNA
XM_167149	
XM_167152	Homo sapiens chromosome 6 open reading frame 194 (C6orf194), mRNA Homo sapiens similar to Zinc finger protein 192 (LD5-1) (LOC222701), mRN,
XM_167254	Homo sapiens similar to tropomyosin 3 (LOC221875), mRNA
XM_167275	Homo sapiens similar to ribosomal protein L23 (LOC222901), mRNA
XM_167709	Homo sapiens similar to ribosoffiai piotein L23 (LOC222901), mRNA Homo sapiens hypothetical protein LOC221061 (LOC221061), mRNA
XM_167711	Homo sapiens integrin, alpha 8 (ITGA8), mRNA
XM_167908	Homo sapiens integrin, apria o (11946), mRNA Homo sapiens hypothetical LOC221140 (LOC221140), mRNA
XM_168030	Homo sapiens riypothetical EOC221140 (EOC221140), mRNA Homo sapiens zinc finger protein 319 (ZNF319), mRNA
XM_168053	Homo sapiens chromosome 6 open reading frame 184 (C6orf184), mRNA
XM_168055	Homo sapiens chromosome 6 open reading frame 185 (C6orf185), mRNA
XM_168060	Homo sapiens chromosome 6 open reading frame 154 (C6orf154), mRNA
XM_168073	Homo sapiens ciriomosome o open reading frame 154 (Coor154), mRNA Homo sapiens hypothetical LOC221344 (LOC221344), mRNA
XM_168101	Homo sapiens hypothetical LOC221766 (LOC221766), mRNA
XM_168223	Homo sapiens similar to RIKEN cDNA A530016006 gene (LOC221813), mR
XM_168302	Homo sapiens similar to Kinchi CDNA A3300 10000 gene (LOC221813), filk Homo sapiens zinc finger protein 36 (KOX 18) (ZNF36), mRNA
XM_168354	Homo sapiens similar to SMT3 suppressor of mif two 3 homolog 2 (LOC2220
XM_168521	Homo sapiens similar to SW13 suppressor of fill two 3 homology 2 (LOC222C Homo sapiens hypothetical LOC222190 (LOC222190), mRNA
XM_168578	Homo sapiens mucin 3B (MUC3B), mRNA
XM_168583	Homo sapiens mucin 17 (MUC17), mRNA
	sapiono maoni ir (moo ir), mavi

XM_168585	Homo sapiens similar to mucin 11 (LOC219612), mRNA
XM_168590	Homo sapiens zuotin related factor 1 (ZRF1), mRNA
XM_169057	Homo sapiens hypothetical LOC219908 (LOC219908), mRNA
XM_169227	Homo sapiens similar to proline rich antigen 2 (LOC220061), mRNA
XM_169258	Homo sapiens similar to KIAA0543 protein (LOC219638), mRNA
XM_169434	Homo sapiens similar to TAR DNA binding protein (LOC219414), mRNA
XM_170525	Homo sapiens similar to ARF GTPase-activating protein (LOC255319), mRN
XM_170536	Homo sapiens similar to eukaryotic translation initiation factor 2, subunit 3 ga
XM_170597	Homo sapiens similar to peptidylprolyl isomerase A (LOC256374), mRNA
XM_170620	Homo sapiens similar to 60S ribosomal protein L21 (LOC256457), mRNA
XM_170637	Homo sapiens similar to beta-tubulin 4Q (LOC253936), mRNA
XM_170658	Homo sapiens tangerin (DKFZp762C186), mRNA
XM_170659	Homo sapiens similar to 2010003K11Rik protein (LOC254439), mRNA
XM_170667	Homo sapiens hypothetical protein LOC254359 (LOC254359), mRNA
XM_170708	Homo sapiens hypothetical LOC255411 (LOC255411), mRNA
XM_170736	Homo sapiens hypothetical protein LOC253512 (LOC253512), mRNA
XM_170749	Homo sapiens similar to GARNL1 protein (LOC387984), mRNA
XM_170754	Homo sapiens similar to serine (or cysteine) proteinase inhibitor, clade A (alç
XM_170777	Homo sapiens similar to Microsomal signal peptidase 25 kDa subunit (SPase
XM_170840	Homo sapiens similar to CDRT15 protein (LOC256223), mRNA
XM_170842	Homo sapiens hypothetical protein FLJ40244 (FLJ40244), mRNA
XM_170909	Homo sapiens similar to hypothetical protein MGC20470 (LOC257177), mRN
XM_170950	Homo sapiens similar to OSJNBa0043A12.32 (LOC254897), mRNA
XM 170994	Homo sapiens hypothetical LOC255349 (LOC255349), mRNA
XM_171008	Homo sapiens similar to high mobility group AT-hook 1 (LOC257200), mRNA
XM_171013	Homo sapiens similar to Gamma-2-syntrophin (G2SYN) (Syntrophin 5) (SYN
XM_171032	Homo sapiens hypothetical protein LOC255812 (LOC255812), mRNA
XM_171040	Homo sapiens similar to MEGF6 (LOC253820), mRNA
XM_171054	Homo sapiens KIAA0527 protein (KIAA0527), mRNA
XM 171060	Homo sapiens hypothetical protein MGC50836 (MGC50836), mRNA
XM 171068	
AIVI II IUUU	Homo sapiens hypothetical protein LOC253017 (LOC253017), mRNA
XM_171008 XM_171078	Homo sapiens hypothetical protein LOC253017 (LOC253017), mRNA Homo sapiens similar to ALGV3072 (LOC255324), mRNA
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XM_171078 XM_171081	Homo sapiens similar to ALGV3072 (LOC255324), mRNA
XM_171078 XM_171081 XM_171094	Homo sapiens similar to ALGV3072 (LOC255324), mRNA Homo sapiens similar to ras-related C3 botulinum toxin substrate 1 isoform F
XM_171078 XM_171081 XM_171094 XM_171105	Homo sapiens similar to ALGV3072 (LOC255324), mRNA Homo sapiens similar to ras-related C3 botulinum toxin substrate 1 isoform F Homo sapiens similar to eukaryotic translation initiation factor eIF4E-1 (LOC
XM_171078 XM_171081 XM_171094	Homo sapiens similar to ALGV3072 (LOC255324), mRNA Homo sapiens similar to ras-related C3 botulinum toxin substrate 1 isoform F Homo sapiens similar to eukaryotic translation initiation factor eIF4E-1 (LOC; Homo sapiens hypothetical LOC255338 (LOC255338), mRNA
XM_171078 XM_171081 XM_171094 XM_171105 XM_171150 XM_171154	Homo sapiens similar to ALGV3072 (LOC255324), mRNA Homo sapiens similar to ras-related C3 botulinum toxin substrate 1 isoform F Homo sapiens similar to eukaryotic translation initiation factor eIF4E-1 (LOC; Homo sapiens hypothetical LOC255338 (LOC255338), mRNA Homo sapiens similar to bA145E8.1 (KIAA1074) (LOC254027), mRNA
XM_171078 XM_171081 XM_171094 XM_171105 XM_171150	Homo sapiens similar to ALGV3072 (LOC255324), mRNA Homo sapiens similar to ras-related C3 botulinum toxin substrate 1 isoform F Homo sapiens similar to eukaryotic translation initiation factor eIF4E-1 (LOC2 Homo sapiens hypothetical LOC255338 (LOC255338), mRNA Homo sapiens similar to bA145E8.1 (KIAA1074) (LOC254027), mRNA Homo sapiens similar to myelin protein zero-like 1; protein zero related (LOC
XM_171078 XM_171081 XM_171094 XM_171105 XM_171150 XM_171154 XM_171156	Homo sapiens similar to ALGV3072 (LOC255324), mRNA Homo sapiens similar to ras-related C3 botulinum toxin substrate 1 isoform F Homo sapiens similar to eukaryotic translation initiation factor eIF4E-1 (LOC2 Homo sapiens hypothetical LOC255338 (LOC255338), mRNA Homo sapiens similar to bA145E8.1 (KIAA1074) (LOC254027), mRNA Homo sapiens similar to myelin protein zero-like 1; protein zero related (LOC Homo sapiens similar to bA145E8.1 (KIAA1074) (LOC254750), mRNA
XM_171078 XM_171081 XM_171094 XM_171105 XM_171150 XM_171154 XM_171156 XM_171158	Homo sapiens similar to ALGV3072 (LOC255324), mRNA Homo sapiens similar to ras-related C3 botulinum toxin substrate 1 isoform F Homo sapiens similar to eukaryotic translation initiation factor eIF4E-1 (LOC; Homo sapiens hypothetical LOC255338 (LOC255338), mRNA Homo sapiens similar to bA145E8.1 (KIAA1074) (LOC254027), mRNA Homo sapiens similar to myelin protein zero-like 1; protein zero related (LOC Homo sapiens similar to bA145E8.1 (KIAA1074) (LOC254750), mRNA Homo sapiens similar to ribosomal protein S2; 40S ribosomal protein S2 (MC
XM_171078 XM_171081 XM_171094 XM_171105 XM_171150 XM_171154 XM_171156 XM_171158 XM_171163	Homo sapiens similar to ALGV3072 (LOC255324), mRNA Homo sapiens similar to ras-related C3 botulinum toxin substrate 1 isoform F Homo sapiens similar to eukaryotic translation initiation factor eIF4E-1 (LOC; Homo sapiens hypothetical LOC255338 (LOC255338), mRNA Homo sapiens similar to bA145E8.1 (KIAA1074) (LOC254027), mRNA Homo sapiens similar to myelin protein zero-like 1; protein zero related (LOC Homo sapiens similar to bA145E8.1 (KIAA1074) (LOC254750), mRNA Homo sapiens similar to ribosomal protein S2; 40S ribosomal protein S2 (MC Homo sapiens similar to Six transmembrane epithelial antigen of prostate (LC Homo sapiens similar to cAMP-dependent protein kinase type I-beta regulate Homo sapiens similar to hypothetical protein MGC49416 (LOC255374), mRN
XM_171078 XM_171081 XM_171094 XM_171105 XM_171150 XM_171154 XM_171156 XM_171158 XM_171163 XM_171165	Homo sapiens similar to ALGV3072 (LOC255324), mRNA Homo sapiens similar to ras-related C3 botulinum toxin substrate 1 isoform F Homo sapiens similar to eukaryotic translation initiation factor eIF4E-1 (LOC; Homo sapiens hypothetical LOC255338 (LOC255338), mRNA Homo sapiens similar to bA145E8.1 (KIAA1074) (LOC254027), mRNA Homo sapiens similar to myelin protein zero-like 1; protein zero related (LOC Homo sapiens similar to bA145E8.1 (KIAA1074) (LOC254750), mRNA Homo sapiens similar to ribosomal protein S2; 40S ribosomal protein S2 (MC Homo sapiens similar to Six transmembrane epithelial antigen of prostate (LC Homo sapiens similar to cAMP-dependent protein kinase type I-beta regulate Homo sapiens similar to hypothetical protein MGC49416 (LOC255374), mRN Homo sapiens similar to RIKEN cDNA 4930429J24 (LOC255220), mRNA
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XM_171078 XM_171081 XM_1711094 XM_171105 XM_171150 XM_171156 XM_171158 XM_171163 XM_171165 XM_171171 XM_171207 XM_171224 XM_171410	Homo sapiens similar to ALGV3072 (LOC255324), mRNA Homo sapiens similar to ras-related C3 botulinum toxin substrate 1 isoform F Homo sapiens similar to eukaryotic translation initiation factor eIF4E-1 (LOC; Homo sapiens hypothetical LOC255338 (LOC255338), mRNA Homo sapiens similar to bA145E8.1 (KIAA1074) (LOC254027), mRNA Homo sapiens similar to myelin protein zero-like 1; protein zero related (LOC Homo sapiens similar to bA145E8.1 (KIAA1074) (LOC254750), mRNA Homo sapiens similar to ribosomal protein S2; 40S ribosomal protein S2 (MC Homo sapiens similar to Six transmembrane epithelial antigen of prostate (LC Homo sapiens similar to cAMP-dependent protein kinase type I-beta regulate Homo sapiens similar to hypothetical protein MGC49416 (LOC255374), mRN Homo sapiens coactivator associated arginine methyltransferase 1-like (CAR Homo sapiens hypothetical protein DKFZp667B0210 (DKFZp667B0210), mF Homo sapiens similar to olfactory receptor (LOC256892), mRNA Homo sapiens similar to Transcription elongation factor B polypeptide 2 (RN)
XM_171078 XM_171081 XM_1711094 XM_171105 XM_171150 XM_171156 XM_171158 XM_171163 XM_171165 XM_171171 XM_171207 XM_171207 XM_171410 XM_171424	Homo sapiens similar to ALGV3072 (LOC255324), mRNA Homo sapiens similar to ras-related C3 botulinum toxin substrate 1 isoform F Homo sapiens similar to eukaryotic translation initiation factor eIF4E-1 (LOC; Homo sapiens hypothetical LOC255338 (LOC255338), mRNA Homo sapiens similar to bA145E8.1 (KIAA1074) (LOC254027), mRNA Homo sapiens similar to myelin protein zero-like 1; protein zero related (LOC Homo sapiens similar to bA145E8.1 (KIAA1074) (LOC254750), mRNA Homo sapiens similar to ribosomal protein S2; 40S ribosomal protein S2 (MC Homo sapiens similar to Six transmembrane epithelial antigen of prostate (LC Homo sapiens similar to cAMP-dependent protein kinase type I-beta regulate Homo sapiens similar to hypothetical protein MGC49416 (LOC255374), mRN Homo sapiens similar to RIKEN cDNA 4930429J24 (LOC255220), mRNA Homo sapiens coactivator associated arginine methyltransferase 1-like (CAR Homo sapiens similar to olfactory receptor (LOC256892), mRNA
XM_171078 XM_171081 XM_171094 XM_171105 XM_171150 XM_171154 XM_171156 XM_171163 XM_171165 XM_171171 XM_171207 XM_171207 XM_171224 XM_171410 XM_171424 XM_171447	Homo sapiens similar to ALGV3072 (LOC255324), mRNA Homo sapiens similar to ras-related C3 botulinum toxin substrate 1 isoform F Homo sapiens similar to eukaryotic translation initiation factor eIF4E-1 (LOC; Homo sapiens hypothetical LOC255338 (LOC255338), mRNA Homo sapiens similar to bA145E8.1 (KIAA1074) (LOC254027), mRNA Homo sapiens similar to myelin protein zero-like 1; protein zero related (LOC Homo sapiens similar to bA145E8.1 (KIAA1074) (LOC254750), mRNA Homo sapiens similar to ribosomal protein S2; 40S ribosomal protein S2 (MC Homo sapiens similar to Six transmembrane epithelial antigen of prostate (LC Homo sapiens similar to cAMP-dependent protein kinase type I-beta regulate Homo sapiens similar to hypothetical protein MGC49416 (LOC255374), mRN Homo sapiens coactivator associated arginine methyltransferase 1-like (CAR Homo sapiens hypothetical protein DKFZp667B0210 (DKFZp667B0210), mF Homo sapiens similar to olfactory receptor (LOC256892), mRNA Homo sapiens similar to Transcription elongation factor B polypeptide 2 (RN/ Homo sapiens similar to seven transmembrane helix receptor (LOC256144), Homo sapiens similar to Olfactory receptor 4S1 (LOC256148), mRNA
XM_171078 XM_171081 XM_171094 XM_171105 XM_171150 XM_171156 XM_171158 XM_171163 XM_171165 XM_171171 XM_171207 XM_171207 XM_171224 XM_171440 XM_171447 XM_171448	Homo sapiens similar to ALGV3072 (LOC255324), mRNA Homo sapiens similar to ras-related C3 botulinum toxin substrate 1 isoform F Homo sapiens similar to eukaryotic translation initiation factor eIF4E-1 (LOC; Homo sapiens hypothetical LOC255338 (LOC255338), mRNA Homo sapiens similar to bA145E8.1 (KIAA1074) (LOC254027), mRNA Homo sapiens similar to myelin protein zero-like 1; protein zero related (LOC Homo sapiens similar to bA145E8.1 (KIAA1074) (LOC254750), mRNA Homo sapiens similar to ribosomal protein S2; 40S ribosomal protein S2 (MC Homo sapiens similar to Six transmembrane epithelial antigen of prostate (LC Homo sapiens similar to cAMP-dependent protein kinase type I-beta regulate Homo sapiens similar to hypothetical protein MGC49416 (LOC255374), mRN Homo sapiens coactivator associated arginine methyltransferase 1-like (CAR Homo sapiens hypothetical protein DKFZp667B0210 (DKFZp667B0210), mF Homo sapiens similar to olfactory receptor (LOC256892), mRNA Homo sapiens similar to Transcription elongation factor B polypeptide 2 (RN/ Homo sapiens similar to Seven transmembrane helix receptor (LOC256144), Homo sapiens similar to Claudin-22 (LOC255244), mRNA
XM_171078 XM_171081 XM_171094 XM_171105 XM_171150 XM_171156 XM_171156 XM_171163 XM_171165 XM_171171 XM_171207 XM_171207 XM_171424 XM_171447 XM_171449 XM_171449	Homo sapiens similar to ALGV3072 (LOC255324), mRNA Homo sapiens similar to ras-related C3 botulinum toxin substrate 1 isoform F Homo sapiens similar to eukaryotic translation initiation factor eIF4E-1 (LOC; Homo sapiens hypothetical LOC255338 (LOC255338), mRNA Homo sapiens similar to bA145E8.1 (KIAA1074) (LOC254027), mRNA Homo sapiens similar to myelin protein zero-like 1; protein zero related (LOC Homo sapiens similar to bA145E8.1 (KIAA1074) (LOC254750), mRNA Homo sapiens similar to ribosomal protein S2; 40S ribosomal protein S2 (MC Homo sapiens similar to Six transmembrane epithelial antigen of prostate (LC Homo sapiens similar to cAMP-dependent protein kinase type I-beta regulate Homo sapiens similar to hypothetical protein MGC49416 (LOC255374), mRN Homo sapiens coactivator associated arginine methyltransferase 1-like (CAR Homo sapiens hypothetical protein DKFZp667B0210 (DKFZp667B0210), mF Homo sapiens similar to olfactory receptor (LOC256892), mRNA Homo sapiens similar to Transcription elongation factor B polypeptide 2 (RN/ Homo sapiens similar to Seven transmembrane helix receptor (LOC256144), Homo sapiens similar to Claudin-22 (LOC255244), mRNA Homo sapiens similar to Claudin-22 (LOC255244), mRNA Homo sapiens similar to large subunit ribosomal protein L36a (LOC255701),
XM_171078 XM_171081 XM_171094 XM_171105 XM_171150 XM_171156 XM_171158 XM_171163 XM_171165 XM_171171 XM_171207 XM_171207 XM_171224 XM_171410 XM_171424 XM_171447 XM_171449 XM_171490 XM_171495	Homo sapiens similar to ALGV3072 (LOC255324), mRNA Homo sapiens similar to ras-related C3 botulinum toxin substrate 1 isoform F Homo sapiens similar to eukaryotic translation initiation factor eIF4E-1 (LOC; Homo sapiens hypothetical LOC255338 (LOC255338), mRNA Homo sapiens similar to bA145E8.1 (KIAA1074) (LOC254027), mRNA Homo sapiens similar to myelin protein zero-like 1; protein zero related (LOC Homo sapiens similar to bA145E8.1 (KIAA1074) (LOC254750), mRNA Homo sapiens similar to ribosomal protein S2; 40S ribosomal protein S2 (MC Homo sapiens similar to Six transmembrane epithelial antigen of prostate (LC Homo sapiens similar to cAMP-dependent protein kinase type I-beta regulate Homo sapiens similar to hypothetical protein MGC49416 (LOC255374), mRN Homo sapiens coactivator associated arginine methyltransferase 1-like (CAR Homo sapiens hypothetical protein DKFZp667B0210 (DKFZp667B0210), mF Homo sapiens similar to olfactory receptor (LOC256892), mRNA Homo sapiens similar to Transcription elongation factor B polypeptide 2 (RN/ Homo sapiens similar to Olfactory receptor 4S1 (LOC256148), mRNA Homo sapiens similar to Claudin-22 (LOC255244), mRNA Homo sapiens similar to large subunit ribosomal protein L36a (LOC255701), Homo sapiens similar to seven transmembrane helix receptor (LOC255725),
XM_171078 XM_171081 XM_171094 XM_171105 XM_171150 XM_171156 XM_171158 XM_171163 XM_171165 XM_171171 XM_171207 XM_171207 XM_171224 XM_171410 XM_171424 XM_171447 XM_171449 XM_171490 XM_171495 XM_171503	Homo sapiens similar to ALGV3072 (LOC255324), mRNA Homo sapiens similar to ras-related C3 botulinum toxin substrate 1 isoform F Homo sapiens similar to eukaryotic translation initiation factor eIF4E-1 (LOC; Homo sapiens hypothetical LOC255338 (LOC255338), mRNA Homo sapiens similar to bA145E8.1 (KIAA1074) (LOC254027), mRNA Homo sapiens similar to myelin protein zero-like 1; protein zero related (LOC Homo sapiens similar to bA145E8.1 (KIAA1074) (LOC254750), mRNA Homo sapiens similar to ribosomal protein S2; 40S ribosomal protein S2 (MC Homo sapiens similar to Six transmembrane epithelial antigen of prostate (LC Homo sapiens similar to cAMP-dependent protein kinase type I-beta regulate Homo sapiens similar to hypothetical protein MGC49416 (LOC255374), mRN Homo sapiens similar to RIKEN cDNA 4930429J24 (LOC255220), mRNA Homo sapiens coactivator associated arginine methyltransferase 1-like (CAR Homo sapiens hypothetical protein DKFZp667B0210 (DKFZp667B0210), mF Homo sapiens similar to olfactory receptor (LOC256892), mRNA Homo sapiens similar to Transcription elongation factor B polypeptide 2 (RN/ Homo sapiens similar to Seven transmembrane helix receptor (LOC256144), Homo sapiens similar to Claudin-22 (LOC255244), mRNA Homo sapiens similar to large subunit ribosomal protein L36a (LOC255701), Homo sapiens mas-related G protein-coupled MRGE (MRGE), mRNA
XM_171078 XM_171081 XM_171094 XM_171105 XM_171150 XM_171156 XM_171158 XM_171163 XM_171165 XM_171171 XM_171207 XM_171207 XM_17124 XM_171440 XM_171447 XM_171449 XM_171490 XM_171495 XM_171503 XM_171508	Homo sapiens similar to ALGV3072 (LOC255324), mRNA Homo sapiens similar to ras-related C3 botulinum toxin substrate 1 isoform F Homo sapiens similar to eukaryotic translation initiation factor eIF4E-1 (LOC; Homo sapiens hypothetical LOC255338 (LOC255338), mRNA Homo sapiens similar to bA145E8.1 (KIAA1074) (LOC254027), mRNA Homo sapiens similar to myelin protein zero-like 1; protein zero related (LOC Homo sapiens similar to bA145E8.1 (KIAA1074) (LOC254750), mRNA Homo sapiens similar to ribosomal protein S2; 40S ribosomal protein S2 (MC Homo sapiens similar to Six transmembrane epithelial antigen of prostate (LC Homo sapiens similar to cAMP-dependent protein kinase type I-beta regulate Homo sapiens similar to hypothetical protein MGC49416 (LOC255374), mRN Homo sapiens similar to RIKEN cDNA 4930429J24 (LOC255220), mRNA Homo sapiens coactivator associated arginine methyltransferase 1-like (CAR Homo sapiens hypothetical protein DKFZp667B0210 (DKFZp667B0210), mF Homo sapiens similar to olfactory receptor (LOC256892), mRNA Homo sapiens similar to Transcription elongation factor B polypeptide 2 (RN/ Homo sapiens similar to Seven transmembrane helix receptor (LOC256144), Homo sapiens similar to Claudin-22 (LOC255244), mRNA Homo sapiens similar to large subunit ribosomal protein L36a (LOC255701), Homo sapiens mas-related G protein-coupled MRGE (MRGE), mRNA Homo sapiens similar to olfactory receptor MOR109-1 (LOC254783), mRNA
XM_171078 XM_171081 XM_171094 XM_171105 XM_171150 XM_171156 XM_171158 XM_171165 XM_171165 XM_171171 XM_171207 XM_171224 XM_171424 XM_171447 XM_171447 XM_171489 XM_171490 XM_171495 XM_171503 XM_171503 XM_171536	Homo sapiens similar to ALGV3072 (LOC255324), mRNA Homo sapiens similar to ras-related C3 botulinum toxin substrate 1 isoform F Homo sapiens similar to eukaryotic translation initiation factor eIF4E-1 (LOC; Homo sapiens hypothetical LOC255338 (LOC255338), mRNA Homo sapiens similar to bA145E8.1 (KIAA1074) (LOC254027), mRNA Homo sapiens similar to myelin protein zero-like 1; protein zero related (LOC Homo sapiens similar to bA145E8.1 (KIAA1074) (LOC254750), mRNA Homo sapiens similar to ribosomal protein S2; 40S ribosomal protein S2 (MC Homo sapiens similar to Six transmembrane epithelial antigen of prostate (LC Homo sapiens similar to cAMP-dependent protein kinase type I-beta regulate Homo sapiens similar to hypothetical protein MGC49416 (LOC255374), mRN Homo sapiens similar to RIKEN cDNA 4930429J24 (LOC255220), mRNA Homo sapiens coactivator associated arginine methyltransferase 1-like (CAR Homo sapiens hypothetical protein DKFZp667B0210 (DKFZp667B0210), mF Homo sapiens similar to olfactory receptor (LOC256892), mRNA Homo sapiens similar to Transcription elongation factor B polypeptide 2 (RN/ Homo sapiens similar to Claudin-22 (LOC255244), mRNA Homo sapiens similar to Claudin-22 (LOC255244), mRNA Homo sapiens similar to large subunit ribosomal protein L36a (LOC255701), Homo sapiens mas-related G protein-coupled MRGE (MRGE), mRNA Homo sapiens similar to olfactory receptor MOR109-1 (LOC254783), mRNA Homo sapiens similar to olfactory receptor MOR109-1 (LOC254786), mRNA
XM_171078 XM_171081 XM_171094 XM_171105 XM_171150 XM_171156 XM_171156 XM_171165 XM_171165 XM_171165 XM_171171 XM_171207 XM_171224 XM_171410 XM_171424 XM_171447 XM_171489 XM_171490 XM_171495 XM_171503 XM_171503 XM_171578	Homo sapiens similar to ALGV3072 (LOC255324), mRNA Homo sapiens similar to ras-related C3 botulinum toxin substrate 1 isoform F Homo sapiens similar to eukaryotic translation initiation factor eIF4E-1 (LOC; Homo sapiens hypothetical LOC255338 (LOC255338), mRNA Homo sapiens similar to bA145E8.1 (KIAA1074) (LOC254027), mRNA Homo sapiens similar to myelin protein zero-like 1; protein zero related (LOC Homo sapiens similar to ribosomal protein S2; 40S ribosomal protein S2 (MC Homo sapiens similar to Six transmembrane epithelial antigen of prostate (LC Homo sapiens similar to cAMP-dependent protein kinase type I-beta regulate Homo sapiens similar to hypothetical protein MGC49416 (LOC255374), mRN Homo sapiens similar to RIKEN cDNA 4930429J24 (LOC255220), mRNA Homo sapiens coactivator associated arginine methyltransferase 1-like (CAR Homo sapiens similar to olfactory receptor (LOC256892), mRNA Homo sapiens similar to Transcription elongation factor B polypeptide 2 (RN/ Homo sapiens similar to Seven transmembrane helix receptor (LOC256144), Homo sapiens similar to Claudin-22 (LOC255244), mRNA Homo sapiens similar to large subunit ribosomal protein L36a (LOC255701), Homo sapiens mas-related G protein-coupled MRGE (MRGE), mRNA Homo sapiens similar to olfactory receptor MOR109-1 (LOC254783), mRNA Homo sapiens similar to olfactory receptor MOR109-1 (LOC254786), mRNA Homo sapiens similar to ribosomal protein L22 (LOC256441), mRNA
XM_171078 XM_171081 XM_171094 XM_171105 XM_171150 XM_171156 XM_171156 XM_171165 XM_171165 XM_171165 XM_171171 XM_171207 XM_171224 XM_171410 XM_171424 XM_171447 XM_171489 XM_171490 XM_171495 XM_171503 XM_171503 XM_171578 XM_171578	Homo sapiens similar to ALGV3072 (LOC255324), mRNA Homo sapiens similar to ras-related C3 botulinum toxin substrate 1 isoform F Homo sapiens similar to eukaryotic translation initiation factor eIF4E-1 (LOC; Homo sapiens hypothetical LOC255338 (LOC255338), mRNA Homo sapiens similar to bA145E8.1 (KIAA1074) (LOC254027), mRNA Homo sapiens similar to myelin protein zero-like 1; protein zero related (LOC Homo sapiens similar to bA145E8.1 (KIAA1074) (LOC254750), mRNA Homo sapiens similar to ribosomal protein S2; 40S ribosomal protein S2 (MC Homo sapiens similar to Six transmembrane epithelial antigen of prostate (LC Homo sapiens similar to cAMP-dependent protein kinase type I-beta regulate Homo sapiens similar to hypothetical protein MGC49416 (LOC255374), mRN Homo sapiens similar to RIKEN cDNA 4930429J24 (LOC255220), mRNA Homo sapiens coactivator associated arginine methyltransferase 1-like (CAR Homo sapiens hypothetical protein DKFZp667B0210 (DKFZp667B0210), mF Homo sapiens similar to olfactory receptor (LOC256892), mRNA Homo sapiens similar to Transcription elongation factor B polypeptide 2 (RN/ Homo sapiens similar to Claudin-22 (LOC255244), mRNA Homo sapiens similar to Claudin-22 (LOC255244), mRNA Homo sapiens similar to large subunit ribosomal protein L36a (LOC255701), Homo sapiens mas-related G protein-coupled MRGE (MRGE), mRNA Homo sapiens similar to olfactory receptor MOR109-1 (LOC254783), mRNA Homo sapiens similar to olfactory receptor MOR109-1 (LOC254786), mRNA

XM_171855	Homo sapiens similar to myeloid-associated differentiation marker (LOC2552
XM_171892	Homo sapiens similar to ribosomal protein L31 (LOC253013), mRNA
XM_171973	Homo sapiens similar to zinc finger protein 91 (HPF7, HTF10) (LOC253342),
XM_172230	Homo sapiens similar to ribosomal protein S17 (LOC257039), mRNA
XM_172341	Homo sapiens hypothetical protein FLJ35036 (FLJ35036), mRNA
XM_172389	Homo sapiens similar to Tryptophan-rich protein (Congenital heart disease 5
XM_172751	Homo sapiens similar to Olfactory receptor 1L4 (Olfactory receptor 9-E) (OR
XM_172801	Homo sapiens KIAA1210 protein (KIAA1210), mRNA
XM_172852	Homo sapiens hypothetical LOC256676 (LOC256676), mRNA
XM 172855	Homo sapiens hypothetical LOC255849 (LOC255849), mRNA
XM 172860	Homo sapiens hypothetical LOC255649 (LOC255649), mRNA
XM 172861	Homo sapiens similar to ZP1 precursor (LOC255714), mRNA
XM_172874	Homo sapiens hypothetical LOC253724 (LOC253724), mRNA
XM_172889	Homo sapiens hypothetical LOC256176 (LOC256176), mRNA
XM_172917	Homo sapiens hypothetical LOC256453 (LOC256453), mRNA
XM 172929	Homo sapiens hypothetical protein LOC255189 (LOC255189), mRNA
XM 172931	Homo sapiens hypothetical protein LOC254559 (LOC254559), mRNA
XM_172968	Homo sapiens hypothetical protein LOC253962 (LOC253962), mRNA
XM_172995	Homo sapiens hypothetical LOC255809 (LOC255809), mRNA
XM_173012	Homo sapiens hypothetical LOC256686 (LOC256686), mRNA
XM_173015	Homo sapiens hypothetical LOC256483 (LOC256483), mRNA
XM_173016 XM_173036	Homo sapiens hypothetical EOC230403 (EOC230403), mRNA Homo sapiens hypothetical protein LOC255654 (LOC255654), mRNA
XM_173063	Homo sapiens hypothetical LOC253662 (LOC253662), mRNA
XM_173068	Homo sapiens hypothetical LOC253562 (LOC253562), mRNA Homo sapiens hypothetical LOC253584 (LOC253584), mRNA
XM_173083	Homo sapiens hypothetical EOC233364 (EOC233364), mRNA Homo sapiens hypothetical protein LOC255025 (LOC255025), mRNA
XM_173083 XM_173084	Homo sapiens hypothetical protein LOC253025 (LOC253025), mRNA Homo sapiens hypothetical protein LOC254827 (LOC254827), mRNA
XM_173084 XM_173087	
_	Homo sapiens hypothetical protein LOC255798 (LOC255798), mRNA
XM_173105	Homo sapiens hypothetical LOC256283 (LOC256283), mRNA
XM_173119 XM 173120	Homo sapiens hypothetical LOC255130 (LOC255130), mRNA
_	Homo sapiens hypothetical LOC254938 (LOC254938), mRNA
XM_173132	Homo sapiens similar to unc-93 homolog B1; unc93 (C.elegans) homolog B;
XM_173135	Homo sapiens hypothetical LOC256880 (LOC256880), mRNA
XM_173140	Homo sapiens hypothetical LOC253254 (LOC253254), mRNA
XM_173160	Homo sapiens hypothetical LOC255187 (LOC255187), mRNA
XM_173164	Homo sapiens hypothetical LOC256096 (LOC256096), mRNA
XM_173166	Homo sapiens chromosome 6 open reading frame 191 (C6orf191), mRNA
XM_173173	Homo sapiens amine oxidase, flavin containing 1 (AOF1), mRNA
XM_175125	Homo sapiens hemicentin-2 (DKFZp434P0216), mRNA
XM_208028	Homo sapiens similar to double homeobox protein (LOC283039), mRNA
XM_208035	Homo sapiens similar to hypothetical protein FLJ10817 (LOC347806), mRN/
XM_208042	Homo sapiens similar to 40S ribosomal protein S25 (LOC283114), mRNA
XM_208043	Homo sapiens similar to RING finger protein 18 (Testis-specific ring-finger pr
XM_208058	Homo sapiens similar to NADPH oxidase 4 variant (LOC283247), mRNA
XM_208060	Homo sapiens similar to tripartite motif-containing 51 (LOC283257), mRNA
XM_208061	Homo sapiens similar to tripartite motif protein 48; TRIM48 (LOC283259), mF
XM_208072	Homo sapiens similar to ribosomal protein L13a; 60S ribosomal protein L13a
XM_208080	Homo sapiens similar to Polyhomeotic-like protein 1 (Early development regu
XM_208097	Homo sapiens similar to telomeric repeat binding factor 1 isoform 2; Telomer
XM_208108	Homo sapiens similar to synaptogyrin 2; cellugyrin (LOC283698), mRNA
XM_208116	Homo sapiens similar to elongation factor SIII p15 subunit (LOC283747), mR
XM_208142	Homo sapiens similar to hypothetical protein (LOC283957), mRNA
XM_208145	Homo sapiens similar to rhophilin-like protein; RhoB effector; rhophilin-2; rho
XM_208151	Homo sapiens similar to solute carrier family 16, member 6; monocarboxylate
XM_208185	Homo sapiens similar to large subunit ribosomal protein L36a (LOC284230),
XM_208200	Homo sapiens similar to Heterogeneous nuclear ribonucleoprotein A1 (Helix-
XM_208203	Homo sapiens similar to methyl-CpG binding domain protein 3-like 2 (LOC28
XM_208204	Homo sapiens similar to actin-related protein 2 (LOC284441), mRNA

XM_208213	Homo sapiens similar to fatty acid omega-hydroxylase CYP4A11 (LOC28454
XM_208234	Homo sapiens similar to unactive progesterone receptor, 23 kD; likely orthological control of the control of th
XM_208250	Homo sapiens similar to FRG1 protein (FSHD region gene 1 protein) (LOC28
XM_208261	Homo sapiens similar to lymphocyte activation-associated protein; kelch (Dro
XM_208270	Homo sapiens acrosin-like protease (bA395L14.13), mRNA
XM 208281	Homo sapiens similar to ribosomal protein L18a; 60S ribosomal protein L18a
XM_208300	Homo sapiens similar to 60S ribosomal protein L23a (LOC285214), mRNA
XM 208312	Homo sapiens similar to unc-93 homolog B1; unc93 (C.elegans) homolog B;
XM_208313	Homo sapiens similar to tropomyosin 4 (LOC285321), mRNA
XM_208316	Homo sapiens similar to vascular endothelial zinc finger 1 (LOC285388), mR
XM_208317	Home sapiens similar to 40S ribesome larget in 200 (LOC285388), MR
XM_208319	Homo sapiens similar to 40S ribosomal protein S20 (LOC285384), mRNA
XM_208320	Homo sapiens similar to Epidermal Langerhans cell protein LCP1 (LOC2854
XM_208333	Homo sapiens similar to mitochondrial translational release factor 1-like (LOC
_	Homo sapiens hypothetical protein MGC48637 (MGC48637), mRNA
XM_208352	Homo sapiens alcohol dehydrogenase 5B (ADH5B), mRNA
XM_208356	Homo sapiens similar to cytochrome c oxidase subunit VIa polypeptide 1 pre
XM_208361	Homo sapiens similar to RPL6 protein (LOC285900), mRNA
XM_208373	Homo sapiens similar to Heterogeneous nuclear ribonucleoprotein A1 (Helix-
XM_208403	Homo sapiens similar to Von Ebners gland protein precursor (VEG protein) (
XM_208423	Homo sapiens similar to ribosomal protein S2; 40S ribosomal protein S2 (LO
XM_208431	Homo sapiens similar to ubiquitin-conjugating enzyme UbcM2 (LOC286480),
XM_208438	Homo sapiens similar to Tetratricopeptide repeat protein 3 (TPR repeat prote
XM_208443	Homo sapiens Ras-like GTPase-like (LOC286526), mRNA
XM_208502	Homo sapiens similar to hypothetical protein 9330140G23 (LOC283071), mF
XM_208522	Homo sapiens KIAA1394 protein (KIAA1394), mRNA
XM_208524	Homo sapiens hypothetical protein LOC283129 (LOC283129), mRNA
XM_208529	Homo sapiens hypothetical protein DKFZp547C195 (DKFZp547C195), mRN
XM_208541	Homo sapiens similar to Olfactory receptor 8D2 (Olfactory receptor-like prote
XM_208543	Homo sapiens similar to Olfactory receptor 8D1 (Olfactory receptor-like prote
XM_208545	Homo sapiens similar to bone morphogenetic protein receptor, type IA precu
XM_208554	Homo sapiens similar to Protein farnesyltransferase/geranylgeranyltransferas
XM_208563	Homo sapiens hypothetical LOC283202 (LOC283202), mRNA
XM_208604	Homo sapiens similar to Olfactory receptor 10A4 (HP2) (Olfactory receptor-lil
XM_208612	Homo sapiens hypothetical LOC283321 (LOC283321), mRNA
XM_208613	Homo sapiens similar to 60 kDa heat shock protein, mitochondrial precursor
XM_208635	Homo sapiens similar to cDNA sequence BC030307 (LOC283350), mRNA
XM_208647	Homo sapiens hypothetical protein LOC283377 (LOC283377), mRNA
XM_208658	Homo sapiens similar to Succinyl-CoA ligase [GDP-forming] beta-chain, mito
XM_208667	Homo sapiens similar to HEEE9341 (LOC283420), mRNA
XM_208690	Homo sapiens similar to 40S ribosomal protein S26 (LOC283479), mRNA
XM_208731	Homo sapiens chromosome 14 open reading frame 68 (C14orf68), mRNA
XM_208746	Homo sapiens hypothetical protein LOC283578 (LOC283578), mRNA
XM_208766	Homo sapiens KIAA0284 (KIAA0284), mRNA
XM_208778	Homo sapiens hypothetical LOC283677 (LOC283677), mRNA
XM_208798	Homo sapiens similar to hypothetical protein FLJ35785 (LOC283717), mRN/
XM_208809	Homo sapiens similar to hypothetical protein D030069K18 (LOC283726), mF
XM_208835	Homo sapiens similar to hypothetical protein FLJ36144 (LOC283767), mRN/
XM_208847	Homo sapiens similar to testicular Metalloprotease-like, Disintegrin-like, Cyst
XM_208859	Homo sapiens similar to ARHGAP21 protein (LOC283816), mRNA
XM_208863	Homo sapiens similar to nuclear pore complex interacting protein (LOC3481)
XM_208887	Homo sapiens hypothetical protein LOC283871 (LOC283871), mRNA
XM_208889	Homo sapiens similar to MGC9515 protein (LOC388240), mRNA
XM_208891 XM_208908	Homo sapiens similar to nuclear pore complex interacting protein (LOC2838)
-	Homo sapiens hypothetical protein LOC283922 (LOC283922), mRNA
XM_208927	Homo sapiens hypothetical protein FLJ36208 (FLJ36208), mRNA
XM_208930 XM_208944	Homo sapiens similar to RIKEN cDNA 4930511J11 (LOC283953), mRNA
7.IVI_200344	Homo sapiens hypothetical protein LOC283989 (LOC283989), mRNA

XM_208990	Homo sapiens hypothetical LOC284067 (LOC284067), mRNA
XM_208993	Homo sapiens Similar to hypothetical gene supported by AL050367; AK0229
XM_209012	Homo sapiens similar to keratin 17 (LOC284089), mRNA
XM 209041	Homo sapiens similar to KIAA1503 protein (LOC284158), mRNA
XM_209073	Homo sapiens hypothetical protein LOC284207 (LOC284207), mRNA
XM 209076	Homo sapiens similar to Ankyrin repeat domain protein 18A (LOC284232), m
XM_209083	Homo sapiens similar to telomeric repeat binding factor 1 isoform 2; Telomer
XM 209097	Homo sapiens similar to FLJ10101 protein (LOC284269), mRNA
XM_209104	Homo sapiens similar to Placental thrombin inhibitor (Cytoplasmic antiproteir
XM_209111	Homo sapiens hypothetical protein LOC284307 (LOC284307), mRNA
XM_209138	
_	Homo sapiens similar to LL5 beta (LOC388548), mRNA
XM_209140	Homo sapiens hypothetical protein LOC284323 (LOC284323), mRNA
XM_209145	Homo sapiens similar to RIKEN cDNA 0610012D14 (LOC284363), mRNA
XM_209149	Homo sapiens similar to hypothetical protein FLJ31030 (LOC284318), mRN/
XM_209155	Homo sapiens hypothetical protein LOC284371 (LOC284371), mRNA
XM_209163	Homo sapiens similar to solute carrier family 7, member 3; amino acid transp
XM_209178	Homo sapiens similar to 60S ribosomal protein L10 (QM protein homolog) (L
XM_209180	Homo sapiens similar to FKSG60 (LOC284397), mRNA
XM_209187	Homo sapiens similar to BC022651 protein (LOC284417), mRNA
XM_209196	Homo sapiens similar to HSPC323 (LOC284422), mRNA
XM_209204	Homo sapiens hypothetical protein MGC26694 (MGC26694), mRNA
XM_209227	Homo sapiens similar to KIAA0456 protein (LOC391087), mRNA
XM_209234	Homo sapiens hypothetical protein DKFZp434E1410 (DKFZp434E1410), mF
XM_209252	Homo sapiens similar to RIKEN cDNA 4930522H14 (LOC284546), mRNA
XM 209337	Homo sapiens similar to coiled-coil-helix-coiled-coil-helix domain containing 2
XM 209363	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1-li
XM 209384	Homo sapiens hypothetical LOC284859 (LOC284859), mRNA
XM 209394	Homo sapiens hypothetical LOC284874 (LOC284874), mRNA
XM 209408	Homo sapiens similar to bA436C9.2 (PUTATIVE novel protein similar to part
XM 209423	Homo sapiens similar to bA395L14.5 (novel phosphoglucomutase like protein
XM_209429	Homo sapiens similar to ARHQ protein (LOC284988), mRNA
XM_209489	Homo sapiens similar to CG14853-PB (LOC285141), mRNA
XM_209490	Homo sapiens hypothetical protein LOC285148 (LOC285148), mRNA
XM 209500	Homo sapiens similar to 60S ribosomal protein L10 (QM protein homolog) (L
XM_209505	Homo sapiens similar to KIAA0445 protein (LOC285188), mRNA
XM_209509	Homo sapiens similar to RIKEN cDNA 0710001B24 (LOC285193), mRNA
_	
XM_209550	Homo sapiens similar to Carboxypeptidase N 83 kDa chain (Carboxypeptidas
XM_209554	Homo sapiens similar to FSHD Region Gene 2 protein (LOC285299), mRNA
XM_209559	Homo sapiens similar to MGC27169 protein (LOC285303), mRNA
XM_209563	Homo sapiens hypothetical LOC285311 (LOC285311), mRNA
XM_209569	Homo sapiens similar to ataxin-1 ubiquitin-like interacting protein (LOC28532
XM_209579	Homo sapiens hypothetical protein LOC285346 (LOC285346), mRNA
XM_209597	Homo sapiens similar to beta-1,4-mannosyltransferase; beta-1,4 mannosyltra
XM_209604	Homo sapiens hypothetical LOC285423 (LOC285423), mRNA
XM_209607	Homo sapiens hypothetical protein LOC285429 (LOC285429), mRNA
XM_209612	Homo sapiens hypothetical protein LOC285440 (LOC285440), mRNA
XM_209616	Homo sapiens similar to APACD protein (LOC285453), mRNA
XM_209640	Homo sapiens hypothetical protein LOC285501 (LOC285501), mRNA
XM_209643	Homo sapiens similar to hypothetical protein FLJ20035 (LOC285510), mRN/
XM_209655	Homo sapiens similar to beta-1,4-mannosyltransferase; beta-1,4 mannosyltra
XM_209656	Homo sapiens hypothetical protein LOC285550 (LOC285550), mRNA
XM_209668	Homo sapiens similar to RIKEN cDNA 1700007106 (LOC285588), mRNA
XM_209695	Homo sapiens similar to Chromosome-associated kinesin KIF4A (Chromokin
XM_209700	Homo sapiens similar to FLJ00052 protein (LOC285647), mRNA
XM_209704	Homo sapiens similar to hypothetical protein (LOC285658), mRNA
XM_209719	Homo sapiens hypothetical protein LOC285679 (LOC285679), mRNA
XM_209728	Homo sapiens similar to C-terminal binding protein 2 isoform 2; ribeye (LOC2
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XM_209741	Homo sapiens similar to Translationally controlled tumor protein (TCTP) (p23
XM_209753	Homo sapiens similar to FLJ00254 protein (LOC285770), mRNA
XM_209824	Homo sapiens similar to matrilin 2 precursor (LOC285929), mRNA
XM_209827	Homo sapiens similar to 40S ribosomal protein S26 (LOC285938), mRNA
XM_209870	Homo saplens similar to FLJ10408 protein (LOC286040), mRNA
XM_209889	Homo sapiens similar to hypothetical protein (LOC286076), mRNA
XM_209893	Homo sapiens similar to TBP-associated factor 15 isoform 1; TAF15 RNA po
XM_209902	Homo sapiens zinc finger protein 252 (ZNF252), mRNA
XM_209910	Homo sapiens similar to chromosome 15 open reading frame 2 (LOC286129
XM_209913	Homo sapiens similar to ring finger protein 5 (LOC286140), mRNA
XM_209918	Homo sapiens similar to RIKEN cDNA 4930533G20 (LOC286151), mRNA
XM_209920	Homo sapiens similar to mCBP (LOC286157), mRNA
XM_209936	Homo sapiens similar to RIKEN cDNA 1700011J18 (LOC286187), mRNA
XM_209941	Homo sapiens hypothetical protein LOC286207 (LOC286207), mRNA
XM_209955	Homo sapiens similar to beta-tubulin 4Q (LOC286222), mRNA
XM_209967	Homo sapiens similar to NAD-dependent malic enzyme, mitochondrial precu
XM_210022	Homo sapiens GTPase activating RANGAP domain-like 1 (GARNL1), mRNA
XM_210035	Homo sapiens similar to putative UST1-like organic anion transporter (LOC2)
XM_210042	Homo sapiens similar to mitochondrial ribosome recycling factor isoform 1 (L
XM_210048	Homo sapiens hypothetical protein LOC286436 (LOC286436), mRNA
XM_210054	Homo sapiens similar to dJ341D10.1 (novel protein) (LOC286453), mRNA
XM_210062	Homo sapiens ras-related C3 botulinum toxin substrate family member 4 (RA
XM_210082	Homo sapiens similar to 40S ribosomal protein S26 (LOC286513), mRNA
XM_210094	Homo sapiens similar to 40S ribosomal protein S26 (LOC286539), mRNA
XM_210119	Homo sapiens similar to Olfactory receptor 5AT1 (LOC284532), mRNA
XM_210168	Homo sapiens similar to Olfactory receptor 4C13 (LOC283092), mRNA
XM_210169	Homo sapiens similar to Olfactory receptor 4C12 (LOC283093), mRNA
XM_210180	Homo sapiens similar to odorant receptor HOR3beta2 (LOC283110), mRNA
XM_210181 XM_210184	Homo sapiens similar to odorant receptor HOR3beta1 (LOC283111), mRNA
XM_210186	Homo sapiens similar to tripartite motif-containing 43 (LOC283117), mRNA
XM_210193	Homo sapiens similar to Olfactory receptor 8B4 (LOC283162), mRNA
XM_210196	Homo sapiens similar to Olfactory receptor 9G4 (LOC283189), mRNA
XM_210242	Homo sapiens similar to seven transmembrane helix receptor (LOC283193), Homo sapiens similar to olfactory receptor GA_x6K02T2PULF-11031172-11(
XM 210282	Homo sapiens similar to Olfactory receptor 4K5 (LOC283621), mRNA
XM_210324	Homo sapiens similar to Vacuolar ATP synthase 16 kDa proteolipid subunit (
XM_210334	Homo sapiens similar to 60S ribosomal protein L29 (Cell surface heparin bin
XM_210365	Homo sapiens similar to Ribosomal protein L24-like (LOC284288), mRNA
XM 210382	Homo sapiens similar to Olfactory receptor 2Z1 (LOC284383), mRNA
XM_210394	Homo sapiens similar to Contains similarity to extensin (atExt1) from Arabido
XM_210400	Homo sapiens similar to autoantigen NOR-90 (LOC285031), mRNA
XM_210411	Homo sapiens similar to Oligophrenin 1 (LOC285101), mRNA
XM_210501	Homo sapiens similar to HSPC182 protein (LOC286528), mRNA
XM_210515	Homo sapiens similar to testis specific protein, Y-linked (LOC286561), mRN/
XM_210543	Homo sapiens similar to SPBPJ4664.02 (LOC285253), mRNA
XM_210557	Homo sapiens similar to heterochromatin-specific nonhistone protein (LOC2)
XM_210559	Homo sapiens similar to Retinoic acid receptor beta (RAR-beta) (RAR-epsilo
XM_210562	Homo sapiens hypothetical protein LOC285335 (LOC285335), mRNA
XM_210576	Homo sapiens similar to RIKEN cDNA 4921517D21 (LOC285405), mRNA
XM_210581	Homo sapiens claudin 22 (CLDN22), mRNA
XM_210613	Homo sapiens similar to Transcription initiation factor TFIID 28 kDa subunit (
XM_210642	Homo sapiens similar to Transcription initiation factor TFIID 28 kDa subunit (
XM_210752	Homo sapiens similar to Olfactory receptor 13C9 (LOC286362), mRNA
XM_210755	Homo sapiens similar to Olfactory receptor 13D1 (LOC286365), mRNA
XM_210787	Homo sapiens similar to Olfactory receptor 10H5 (LOC284433), mRNA
XM_210826	Homo sapiens similar to Wiskott-Aldrich syndrome protein family member 4 (
XM_210856	Homo sapiens similar to Ras suppressor protein 1 (LOC283029), mRNA

XM_210860	Homo sapiens hypothetical LOC283034 (LOC283034), mRNA
XM_210876	Homo sapiens hypothetical LOC283065 (LOC283065), mRNA
XM_210906	Homo sapiens hypothetical LOC283166 (LOC283166), mRNA
XM 210908	Homo sapiens similar to RIKEN cDNA A930008A22 (LOC283157), mRNA
XM 211009	Homo sapiens hypothetical LOC283389 (LOC283389), mRNA
XM_211028	Homo sapiens hypothetical protein LOC283403 (LOC283403), mRNA
XM_211040	Homo sapiens hypothetical LOC283440 (LOC283440), mRNA
XM_211079	Homo sapiens hypothetical LOC283530 (LOC283530), mRNA
XM_211086	Homo sapiens hypothetical LOC283553 (LOC283553), mRNA
XM_211088	Homo sapiens hypothetical LOC283604 (LOC283604), mRNA
XM_211089	Homo sapiens hypothetical LOC283586 (LOC283586), mRNA
XM_211099 XM 211090	Homo sapiens hypothetical protein LOC283587 (LOC283587), mRNA
XM_211090 XM_211092	Homo sapiens hypothetical LOC283583 (LOC283583), mRNA
_	
XM_211108	Homo sapiens hypothetical LOC283584 (LOC283584), mRNA
XM_211174	Homo sapiens hypothetical LOC283710 (LOC283710), mRNA
XM_211197	Homo sapiens hypothetical LOC283780 (LOC283780), mRNA
XM_211244	Homo sapiens hypothetical LOC283895 (LOC283895), mRNA
XM_211246	Homo sapiens similar to BTG3 associated nuclear protein isoform a; BANP h
XM_211251	Homo sapiens hypothetical LOC283902 (LOC283902), mRNA
XM_211287	Homo sapiens hypothetical protein LOC283999 (LOC283999), mRNA
XM_211291	Homo sapiens hypothetical protein LOC283994 (LOC283994), mRNA
XM_211305	Homo sapiens hypothetical protein LOC284021 (LOC284021), mRNA
XM_211339	Homo sapiens hypothetical LOC284120 (LOC284120), mRNA
XM_211345	Homo sapiens hypothetical LOC284134 (LOC284134), mRNA
XM_211367	Homo sapiens hypothetical LOC284184 (LOC284184), mRNA
XM_211403	Homo sapiens CD33 antigen-like 3 (CD33L3), mRNA
XM_211408	Homo sapiens hypothetical LOC284260 (LOC284260), mRNA
XM_211413	Homo sapiens hypothetical LOC284275 (LOC284275), mRNA
XM_211422	Homo sapiens hypothetical LOC284303 (LOC284303), mRNA
XM_211432	Homo sapiens hypothetical LOC284321 (LOC284321), mRNA
XM_211447	Homo sapiens hypothetical LOC284409 (LOC284409), mRNA
XM_211460	Homo sapiens hypothetical protein LOC284434 (LOC284434), mRNA
XM_211509	Homo sapiens hypothetical LOC284527 (LOC284527), mRNA
XM_211518	Homo sapiens hypothetical LOC284555 (LOC284555), mRNA
XM_211529	Homo sapiens hypothetical protein LOC284591 (LOC284591), mRNA
XM_211557	Homo sapiens hypothetical LOC284623 (LOC284623), mRNA
XM_211573	Homo sapiens hypothetical LOC284646 (LOC284646), mRNA
XM_211627	Homo sapiens hypothetical LOC284754 (LOC284754), mRNA
XM_211694	Homo sapiens hypothetical LOC284931 (LOC284931), mRNA
XM_211707	Homo sapiens hypothetical LOC284968 (LOC284968), mRNA
XM_211736	Homo sapiens hypothetical protein LOC285016 (LOC285016), mRNA
XM_211749	Homo sapiens hypothetical LOC285047 (LOC285047), mRNA
XM_211764	Homo sapiens hypothetical LOC285095 (LOC285095), mRNA
XM_211768	Homo sapiens hypothetical LOC285110 (LOC285110), mRNA
XM_211805	Homo sapiens hypothetical protein LOC285205 (LOC285205), mRNA
XM_211816	Homo saplens hypothetical LOC285248 (LOC285248), mRNA
XM_211837	Homo sapiens hypothetical LOC285307 (LOC285307), mRNA
XM_211843	Homo sapiens hypothetical protein LOC285326 (LOC285326), mRNA
XM_211853	Homo sapiens similar to hypothetical protein MG11009.4 (LOC285344), mRN
XM_211858	Homo sapiens hypothetical protein FLJ12205 (LOC285359), mRNA
XM_211871	Homo sapiens hypothetical LOC285382 (LOC285382), mRNA
XM_211896	Homo sapiens hypothetical LOC285435 (LOC285435), mRNA
XM 211908	Homo sapiens similar to unc-93 homolog B1; unc93 (C.elegans) homolog B;
XM_211923	Homo sapiens hypothetical LOC285509 (LOC285509), mRNA
XM 211983	Homo sapiens hypothetical LOC285694 (LOC285694), mRNA
XM_211988	Homo sapiens hypothetical LOC285711 (LOC285711), mRNA
XM_211995	Homo sapiens hypothetical LOC285721 (LOC285721), mRNA
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XM_212013	Homo sapiens hypothetical LOC285777 (LOC285777), mRNA
XM_212013	Homo sapiens hypothetical LOC285793 (LOC285793), mRNA
XM_212061	Homo sapiens similar to THAP domain containing 5 (LOC285872), mRNA
XM_212067	Homo sapiens hypothetical LOC285890 (LOC285890), mRNA
XM_212094	Homo sapiens hypothetical LOC285919 (LOC285919), mRNA
XM_212123	Homo sapiens hypothetical LOC285995 (LOC285995), mRNA
XM_212162	Homo sapiens similar to CG3104-PA (LOC286080), mRNA
XM_212170	Homo sapiens similar to GG516411 A (EGG260000), mRNA Homo sapiens hypothetical protein LOC286094 (LOC286094), mRNA
XM_212170 XM_212238	Homo sapiens hypothetical protein LOC286235 (LOC286235), mRNA
XM_212230 XM_212241	Homo sapiens DKFZP434M131 protein (DKFZP434M131), mRNA
XM_212319	Homo sapiens by 21-43-48/1017 protein (Big 21-43-48/1017), mRNA
XM_212319 XM_212326	Homo sapiens hypothetical LOC286478 (LOC286478), mRNA
XM_212520 XM_212581	Homo sapiens zinc finger protein 311 (ZNF311), mRNA
XM_212381 XM_290185	Homo sapiens similar to hypothetical protein MGC5560 (LOC338598), mRN/
XM_290185 XM_290225	Homo sapiens similar to hypothetical protein MGC5300 (ECC530395), mixty Homo sapiens similar to pote protein; Expressed in prostate, ovary, testis, ar
XM_290223 XM_290331	Homo sapiens gamma-glutamyltransferase 2 (GGT2), mRNA
XM 290342	Homo sapiens similar to immunoglobulin superfamily, member 3; immunoglo
XM_290342 XM_290345	Homo sapiens similar to eukaryotic translation initiation factor 3, subunit 5 ep
XM_290351 XM_290385	Homo sapiens similar to Nedd-4-like ubiquitin-protein ligase WWP1 (WW do Homo sapiens similar to solute carrier family 29 (nucleoside transporters), me
_	Homo sapiens similar to solute carrier family 29 (nucleoside transporters), me
XM_290389 XM_290401	
_	Homo sapiens hypothetical protein LOC340318 (LOC340318), mRNA Homo sapiens KIAA1674 (KIAA1674), mRNA
XM_290462	· · · · · · · · · · · · · · · · · · ·
XM_290463 XM_290482	Homo sapiens family with sequence similarity 22, member A (FAM22A), mRI
XM_290462 XM_290501	Homo sapiens hypothetical protein FLJ10824 (FLJ10824), mRNA
_	Homo sapiens hypothetical LOC338661 (LOC338661), mRNA
XM_290502	Homo sapiens KIAA1030 protein (KIAA1030), mRNA
XM_290506	Homo sapiens splicing factor 3b, subunit 2, 145kDa (SF3B2), mRNA
XM_290509	Homo sapiens hypothetical protein LOC338692 (LOC338692), mRNA
XM_290516	Homo sapiens myotonic dystrophy protein kinase like protein (HSMDPKIN), r
XM_290517	Homo sapiens KIAA0404 protein (KIAA0404), mRNA
XM_290527	Homo sapiens ubiquitin specific protease 35 (USP35), mRNA
XM_290536	Homo sapiens CTD-binding SR-like protein rA9 (KIAA1542), mRNA
XM_290546	Homo sapiens KIAA0830 protein (KIAA0830), mRNA
XM_290547	Homo sapiens similar to Oligophrenin 1 (LOC338734), mRNA
XM_290552	Homo sapiens cyclic nucleotide gated channel alpha 4 (CNGA4), mRNA
XM_290558	Homo sapiens similar to C1q-related factor precursor (LOC338761), mRNA
XM_290559	Homo sapiens glutamate receptor interacting protein 1 (GRIP1), mRNA
XM_290579	Homo sapiens hypothetical protein LOC338797 (LOC338797), mRNA
XM_290592 XM_290597	Homo sapiens huntingtin interacting protein-1-related (HIP1R), mRNA
_	Homo sapiens hypothetical protein LOC283464 (LOC283464), mRNA
XM_290598 XM_290600	Homo sapiens dendrin (DDN), mRNA Homo sapiens similar to Reticulocalbin 1 precursor (LOC338851), mRNA
_	
XM_290609	Homo sapiens hypothetical LOC338914 (LOC338914), mRNA Homo sapiens hypothetical protein DKFZp762F0713 (DKFZp762F0713), mR
XM_290615 XM_290626	Homo sapiens similar to chromosome 1 open reading frame 36 (LOC338934
_	Homo sapiens chromosome 14 open reading frame 78 (C14orf78), mRNA
XM_290629	Homo sapiens glucuronyl C5-epimerase (GLCE), mRNA
XM_290631	Homo sapiens hypothetical protein DKFZp434J0617 (DKFZp434J0617), mR
XM_290645	Homo sapiens similar to HP95 (LOC339003), mRNA
XM_290660	Homo sapiens KIAA0350 protein (KIAA0350), mRNA
XM_290667	Homo sapiens KIAA0330 protein (KIAA0330), HIKNA Homo sapiens KIAA0220 protein (KIAA0220), mRNA
XM_290670	Homo sapiens NAA0220 protein (NAA0220), mRNA Homo sapiens hypothetical protein LOC339047 (LOC339047), mRNA
XM_290671	Homo sapiens DKFZP434l216 protein (DKFZP434l216), mRNA
XM_290684	Homo sapiens similar to My016 protein (LOC339088), mRNA
XM_290702 XM_290704	Homo sapiens similar to Myo to protein (LOC339086), mRNA Homo sapiens hypothetical protein FLJ12270 (FLJ12270), mRNA
XM_290704 XM_290712	Homo sapiens hypothetical protein MGC46336 (MGC46336), mRNA
VINT 5901 15	Tromo sapisno hypotheticai protein incorrecco (incorrecco), mixiva

XM 290714	Homo sapiens RAB43, member RAS oncogene family (RAB43), mRNA
XM_290722	Homo sapiens similar to RIKEN cDNA 2610003J06 (LOC339123), mRNA
XM 290732	Homo sapiens KIAA1917 protein (KIAA1917), mRNA
XM 290734	Homo sapiens similar to ataxin 2 binding protein 1 isoform gamma; hexaribor
XM_290737	Homo sapiens KIAA1871 protein (KIAA1871), mRNA
XM_290743	Homo sapiens similar to hypothetical protein FLJ36492 (LOC339184), mRN/
XM_290755	Homo sapiens hypothetical protein FLJ35848 (FLJ35848), mRNA
XM 290758	Homo sapiens KIAA0553 protein (KIAA0553), mRNA
XM_290768	Homo sapiens KIAA1554 protein (KIAA1554), mRNA
XM_290777	Homo sapiens hypothetical protein LOC339231 (LOC339231), mRNA
XM 290780	Homo sapiens similar to Envoplakin (210 kDa paraneoplastic pemphigus ant
XM 290781	Homo sapiens similar to Keratin, type I cytoskeletal 14 (Cytokeratin 14) (K14
XM 290782	Homo sapiens similar to Keratin, type I cytoskeletal 16 (Cytokeratin 16) (K16
XM_290786	Homo sapiens similar to endozepine-like protein (LOC339253), mRNA
XM_290793	Homo sapiens kinase suppressor of ras (KSR), mRNA
XM 290795	Homo sapiens hypothetical protein DKFZp667M2411 (DKFZp667M2411), ml
XM 290799	Homo sapiens KIAA1501 protein (KIAA1501), mRNA
XM_290809	Homo sapiens TAF4b RNA polymerase II, TATA box binding protein (TBP)-a
XM_290811	Homo sapiens KIAA1713 protein (KIAA1713), mRNA
XM_290817	Homo sapiens hypothetical protein FLJ34907 (FLJ34907), mRNA
XM_290818	Homo sapiens Spir-1 protein (Spir-1), mRNA
XM_290820	Homo sapiens hypothetical protein FLJ10211 (FLJ10211), mRNA
XM_290822	Homo sapiens hypothetical protein LOC284367 (LOC284367), mRNA
XM_290829	Homo sapiens homolog of Drosophila Intersex (Intersex), mRNA
XM_290831	Homo sapiens hypothetical protein LOC339321 (LOC339321), mRNA
XM_290835	Homo sapiens zinc finger protein 181 (HHZ181) (ZNF181), mRNA
XM_290838	Homo sapiens hypothetical protein LOC339324 (LOC339324), mRNA
XM_290842	Homo sapiens leucine rich repeat and fibronectin type III domain containing
XM_290848	Homo sapiens hypothetical protein LOC339344 (LOC339344), mRNA
XM_290850	Homo sapiens glutamate receptor, ionotropic, N-methyl-D-aspartate 3B (GRI
XM_290854	Homo sapiens G protein-coupled receptor 108 (GPR108), mRNA
XM_290865	Homo sapiens similar to Zinc finger protein 93 (Zinc finger protein HTF34) (L
XM_290866	Homo sapiens similar to 4930572L20Rik protein (LOC339377), mRNA
XM_290867	Homo sapiens RalGEF-like protein 3, mouse homolog (RGL3), mRNA
XM_290872	Homo sapiens similar to Pyruvate kinase, M2 isozyme (LOC339395), mRNA
XM_290902	Homo sapiens hypothetical protein LOC339448 (LOC339448), mRNA
XM_290922	Homo sapiens hypothetical protein MGC27277 (MGC27277), mRNA
XM_290923	Homo sapiens KIAA1639 protein (KIAA1639), mRNA
XM_290925	Homo sapiens hypothetical LOC339494 (LOC339494), mRNA
XM_290927	Homo sapiens similar to bA476115.3 (novel protein similar to septin) (LOC33!
XM_290936	Homo sapiens hypothetical protein MGC35030 (MGC35030), mRNA
XM_290941	Homo sapiens prion protein interacting protein (PRNPIP), mRNA
XM_290944	Homo sapiens KIAA0842 protein (KIAA0842), mRNA
XM_290948	Homo sapiens hypothetical protein LOC343071 (LOC343071), mRNA
XM_290949	Homo sapiens similar to hypothetical protein (LOC339553), mRNA Homo sapiens novel C3HC4 type Zinc finger (ring finger) (FLJ12747), mRNA
XM_290972	Homo sapiens solute carrier family 35, member E4 (SLC35E4), mRNA
XM_290973	Homo sapiens solute carrier lamily 35, member 24 (020324), mixto
XM_290985	Homo sapiens hypothetical protein LOC339692 (LOC339692), mRNA Homo sapiens similar to speckle-type POZ protein (LOC339744), mRNA
XM_290994	Homo sapiens myosin VIIB (MYO7B), mRNA
XM_291001	
XM_291005 XM_291007	
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XM_291015 XM_291016	
XM_291016 XM_291017	
XM 291017	
XM_291019 XM_291020	
/\lvi_231020	Home on protect that a more protecting the observery)

XM_291028	Homo sapiens hypothetical protein DKFZp434A128 (DKFZp434A128), mRN/
XM_291054	Homo sapiens similar to beta-1,4-mannosyltransferase; beta-1,4 mannosyltra
XM_291055	Homo sapiens KIAA1268 protein (KIAA1268), mRNA
XM_291057	Homo sapiens cytoplasmic linker associated protein 2 (CLASP2), mRNA
XM_291059	Homo sapiens hypothetical protein LOC339896 (LOC339896), mRNA
XM_291062	Homo sapiens similar to K06A9.1b.p (KIAA2018), mRNA
XM_291063	Homo sapiens hypothetical protein LOC339903 (LOC339903), mRNA
XM_291064	Homo sapiens KIAA0540 protein (KIAA0540), mRNA
XM_291074	Homo sapiens hypothetical protein FLJ33674 (FLJ33674), mRNA
XM_291075	Homo sapiens hypothetical LOC339926 (LOC339926), mRNA
XM 291077	Homo sapiens hypothetical protein BC009862 (LOC90113), mRNA
XM_291080	Homo sapiens KIAA0804 protein (KIAA0804), mRNA
XM_291085	Homo sapiens KIAA1204 protein (CDGAP), mRNA
XM_291088	Homo sapiens similar to hypothetical protein SB153 isoform 1 (LOC339944),
XM_291095	Homo sapiens similar to glutamate receptor, ionotropic, N-methyl D-aspartati
XM_291099	Homo sapiens similar to Hypothetical protein MGC38937 (LOC339977), mRI
XM_291105	Homo sapiens transcriptional adaptor 2 (ADA2 homolog, yeast)-beta (MGC2
XM_291106	Homo sapiens KIAA0232 gene product (KIAA0232), mRNA
XM_291111	Homo sapiens G protein-coupled receptor 125 (GPR125), mRNA
XM_291117	Homo sapiens similar to succinate dehydrogenase flavoprotein subunit (LOC
XM_291120	Homo sapiens hypothetical protein LOC340024 (LOC340024), mRNA
XM_291128	Homo sapiens KIAA1311 protein (KIAA1311), mRNA
XM_291137	Homo sapiens similar to hypothetical protein D630003M21 (LOC389256), mf
XM_291139	Homo sapiens similar to RIKEN cDNA 9330196J05 (LOC340075), mRNA
XM_291141	Homo sapiens KIAA0303 protein (KIAA0303), mRNA
XM_291142	Homo sapiens hypothetical protein BC014311 (LOC115548), mRNA
XM_291144	Homo sapiens similar to bA110H4.2 (similar to membrane protein) (LOC3400
XM_291154	Homo sapiens similar to hypothetical protein D730019B10 (LOC340152), mF
XM_291159	Homo saplens ion transporter protein (DKFZP434F011), mRNA
XM_291161	Homo sapiens similar to developmental pluripotency associated 5; embryona
XM_291169	Homo sapiens similar to precursor peptide (LOC340204), mRNA
XM_291170	Homo sapiens similar to Hypothetical protein KIAA0036 (LOC340192), mRN
XM_291181	Homo sapiens similar to LINE-1 REVERSE TRANSCRIPTASE HOMOLOG (
XM_291200	Homo sapiens similar to CAGL79 (LOC340221), mRNA
XM_291202	Homo sapiens zinc finger protein 479 (ZNF479), mRNA
XM_291204	Homo sapiens hypothetical LOC340228 (LOC340228), mRNA
XM_291208	Homo sapiens similar to hypothetical ZNF-like protein (LOC340246), mRNA
XM_291222	Homo sapiens DKFZP586J0619 protein (DKFZP586J0619), mRNA
XM_291223	Homo sapiens myosin IG (MYO1G), mRNA
XM_291241	Homo sapiens intracellular membrane-associated calcium-independent phos
XM_291247	Homo sapiens similar to Piccolo protein (Aczonin) (LOC389530), mRNA
XM_291253	Homo sapiens KIAA0146 protein (KIAA0146), mRNA
XM_291261	Homo sapiens zinc finger protein 517 (ZNF517), mRNA
XM_291262	Homo sapiens zinc finger protein 251 (ZNF251), mRNA
XM_291266	Homo sapiens 5-oxoprolinase (ATP-hydrolysing) (OPLAH), mRNA
XM_291268 XM_291269	Homo sapiens glutamate receptor, ionotropic, N-methyl D-asparate-associate
XM_291209	Homo sapiens hypothetical protein KIAA1875 (KIAA1875), mRNA
XM_291270	Homo sapiens similar to unnmaed protein product (LOC340393), mRNA Homo sapiens hypothetical protein DKFZp761P0423 (DKFZp761P0423), mF
XM 291282	Homo sapiens hypothetical protein LOC157697 (LOC157697), mRNA
XM_291291	Homo sapiens KIAA0725 protein (KIAA0725), mRNA
XM_291314	Homo sapiens F-box only protein 10 (FBXO10), mRNA
XM_291315	Homo sapiens KIAA1815 (KIAA1815), mRNA
XM_291321	Homo sapiens similar to Nance-Horan syndrome protein (LOC340527), mRN
XM_291322	Homo sapiens KIAA2001 protein (KIAA2001), mRNA
XM_291326	Homo sapiens KIAA2022 protein (KIAA2022), mRNA
XM_291334	Homo sapiens similar to hypothetical protein MGC15737 (LOC340543), mRN

XM_291335	Homo sapiens hypothetical protein LOC340542 (LOC340542), mRNA
XM_291339	Homo sapiens hypothetical protein LOC340562 (LOC340562), mRNA
XM_291344	Homo sapiens hypothetical protein FLJ12649 (FLJ12649), mRNA
XM_291345	Homo sapiens KIAA0522 protein (KIAA0522), mRNA
XM_291346	Homo sapiens similar to carbonic anhydrase VB, mitochondrial precursor; ca
XM 291378	Homo sapiens similar to C4b-binding protein alpha chain precursor (C4bp) (F
XM 291387	Homo sapiens similar to DAAT9248 (LOC339398), mRNA
XM_291392	Homo sapiens similar to Arylacetamide deacetylase (AADAC) (LOC343066),
XM 291394	Homo sapiens hypothetical protein LOC343068 (LOC343068), mRNA
XM 291395	Homo sapiens similar to Heterogeneous nuclear ribonucleoprotein C-like dJE
XM 291396	Homo sapiens similar to Hypothetical protein DJ845O24.2 (LOC400735), mF
XM_291400	Homo sapiens similar to chromosome 14 open reading frame 24 (LOC34308
XM_291419	Homo sapiens G protein-coupled receptor 153 (GPR153), mRNA
XM 291428	Homo sapiens similar to ribosomal protein L26 (LOC343153), mRNA
XM_291435	Homo sapiens similar to Olfactory receptor 6F1 (LOC343169), mRNA
XM 291436	Homo sapiens similar to Olfactory receptor 5AY1 (LOC343170), mRNA
XM 291437	Homo sapiens olfactory receptor, family 1, subfamily C, member 1 (OR1C1),
XM 291438	Homo sapiens similar to seven transmembrane helix receptor (LOC343171),
XM 291439	Homo sapiens similar to seven transmembrane helix receptor (LOC343172),
XM 291441	Homo sapiens similar to Olfactory receptor 2T3 (LOC343173), mRNA
XM_291464	Homo sapiens similar to KIAA0433 protein (LOC343221), mRNA
XM 291485	Homo sapiens similar to Myosin-binding protein H (MyBP-H) (H-protein) (LOC
XM_291508	Homo sapiens similar to Farnesyl pyrophosphate synthetase (FPP synthetas
XM 291533	Homo sapiens similar to basic transcription factor 3 (LOC343363), mRNA
XM 291543	Homo sapiens similar to KIAA0454 protein (LOC343381), mRNA
XM 291544	Homo sapiens similar to peptidyl-Pro cis trans isomerase (LOC343384), mRI
XM 291548	Homo sapiens similar to Olfactory receptor 10R2 (LOC343406), mRNA
XM_291569	Homo sapiens similar to IFGP6 (LOC343413), mRNA
XM_291577	Homo sapiens similar to RIKEN cDNA 1810009O10 (LOC339521), mRNA
XM 291584	Homo sapiens similar to Phosphorylase B kinase alpha regulatory chain, ske
XM 291607	Homo sapiens similar to dJ1182A14.5.1 (novel gene (isoform 1)) (LOC34350
XM_291623	Homo sapiens similar to hypothetical protein 4833401D15 (LOC343521), mF
XM_291625	Homo sapiens similar to Hypothetical protein DJ845O24.2 (LOC374947), mF
XM_291627	Homo sapiens similar to oral cancer overexpressed 2; transmembrane protei
XM_291638	Homo sapiens hypothetical protein LOC343070 (LOC343070), mRNA
XM 291643	Homo sapiens similar to Ig kappa chain (LOC339562), mRNA
XM_291645	Homo sapiens similar to Olfactory receptor 2T5 (LOC343563), mRNA
XM_291663	Homo sapiens similar to bA304I5.1 (novel lipase) (LOC340654), mRNA
XM_291671	Homo sapiens hypothetical protein LOC282996 (LOC282996), mRNA
XM_291697	Homo sapiens similar to RIKEN cDNA A930010E21 (LOC340745), mRNA
XM_291698	Homo sapiens similar to Rpl7a protein (LOC340749), mRNA
XM_291704	Homo sapiens similar to double homeobox, 4; double homeobox protein 4 (L
XM_291716	Homo sapiens similar to NK-type homeobox (LOC340784), mRNA
XM_291723	Homo sapiens protein RAKc (LOC340811), mRNA
XM_291725	Homo sapiens alpha 2,8-sialyltransferase (ST8SIA-VI), mRNA
XM_291726	Homo sapiens similar to protein of unknown function (LOC340843), mRNA
XM_291729	Homo sapiens TAF3 RNA polymerase II, TATA box binding protein (TBP)-as
XM_291741	Homo sapiens dual specificity phosphatase and pro isomerase domain conta
XM_291745	Homo sapiens similar to 40S ribosomal protein S26 (LOC338611), mRNA
XM_291757	Homo sapiens similar to protein of unknown function (LOC340893), mRNA
XM_291763	Homo sapiens similar to bA508N22.1 (HSPC025) (LOC340947), mRNA
XM_291767	Homo sapiens similar to hypothetical protein FLJ10213 (LOC340900), mRN/
XM_291770	Homo sapiens similar to breast cancer antigen NY-BR-1 (LOC340913), mRN
XM_291771	Homo sapiens similar to HSPC132 (LOC338617), mRNA
XM_291786	Homo sapiens similar to Phosphorylase B kinase gamma catalytic chain, ske
XM_291793	Homo sapiens similar to Chain A, Crystal Structure Of The Radixin Ferm Dor
XM_291806	Homo sapiens similar to seven transmembrane helix receptor (LOC340980),

XM_291816	Homo sapiens otogelin (OTOG), mRNA
XM_291838	Homo sapiens similar to Olfactory receptor 8D4 (LOC338662), mRNA
XM_291857	Homo sapiens similar to ENSANGP0000020885 (LOC341098), mRNA
XM_291859	Homo sapiens olfactory receptor, family 5, subfamily F, member 1 (OR5F1),
XM_291862	Homo sapiens similar to Olfactory receptor 5AP2 (LOC338675), mRNA
XM_291885	Homo sapiens similar to Tryptophanyl-tRNA synthetase (TryptophantRNA li
XM_291892	Homo sapiens similar to olfactory receptor MOR101-1 (LOC341152), mRNA
XM_291924	Homo sapiens similar to Olfactory receptor 4F3 (LOC338718), mRNA
XM_291943	Homo sapiens similar to Elongation factor 1-alpha 2 (EF-1-alpha-2) (Elongati
XM_291947	Homo sapiens hephaestin-like (LOC341208), mRNA
XM_291974	Homo sapiens similar to hypothetical protein FLJ33167 (LOC338750), mRN/
XM_291977	Homo sapiens similar to Olfactory receptor 52L1 (LOC338751), mRNA
XM_291980	Homo sapiens similar to Olfactory receptor 2AG1 (HT3) (LOC338755), mRN/
XM 291981	Homo sapiens similar to hP4 olfactory receptor (LOC341276), mRNA
XM 291986	Homo sapiens olfactory receptor, family 10, subfamily A, member 3 (OR10A:
XM 291989	Homo sapiens similar to hypothetical protein (LOC338756), mRNA
XM_291991	Homo sapiens similar to protein tyrosine phosphatase, receptor type, Q isofo
XM 292012	Homo sapiens similar to Polyadenylate-binding protein 1 (Poly(A)-binding pro
XM 292021	Homo sapiens similar to hypothetical protein (LOC341346), mRNA
XM_292023	Homo sapiens similar to ribosomal protein L31 (LOC341356), mRNA
XM_292027	Homo sapiens similar to Dag1-prov protein (LOC341370), mRNA
XM 292029	Homo sapiens hypothetical LOC341371 (LOC341371), mRNA
XM 292035	Homo sapiens similar to olfactory specific medium-chain acyl CoA synthetas
XM_292046	Homo sapiens similar to ribosomal protein L31 (LOC341412), mRNA
XM 292048	Homo sapiens similar to Heat shock factor protein 2 (HSF 2) (Heat shock train
XM_292049	Homo sapiens similar to olfactory receptor MOR114-1 (LOC341416), mRNA
XM_292051	Homo sapiens similar to Olfactory receptor 6C4 (LOC341418), mRNA
XM_292064	Homo sapiens similar to fertilin alpha subunit (LOC338792), mRNA
XM_292004 XM_292085	Homo sapiens similar to peptidyl-Pro cis trans isomerase (LOC341457), mRI
XM_292093	Homo sapiens liver-specific organic anion transporter 3 (LST-3), mRNA
XM_292098	Homo sapiens similar to hypothetical protein (LOC341461), mRNA
XM_292109	Homo sapiens similar to 60S ribosomal protein L23a (LOC341511), mRNA
XM_292109 XM_292122	Homo sapiens similar to neurofilament-like protein (LOC338829), mRNA
XM_292136	Homo sapiens similar to seven transmembrane helix receptor (LOC341568),
XM_292160	Homo sapiens similar to Seven transmembrane homo receptor (2006); Homo sapiens similar to Serine/threonine-protein kinase Nek1 (NimA-related
XM_292184	Homo sapiens similar to immune-responsive gene 1 (LOC341720), mRNA
_	Homo sapiens hypothetical protein DKFZp686J0811 (DKFZp686J0811), mR
XM_292193 XM_292197	Homo sapiens similar to bA215B13.2 (fumarate hydratase (FH) pseudogene
_	Homo sapiens similar to ribosomal protein S12 (LOC338870), mRNA
XM_292210	Homo sapiens similar to putative pancreatic ribonuclease (LOC338879), mRI
XM_292225	
XM_292227	Homo saplens similar to Olfactory receptor 6S1 (LOC341799), mRNA Homo saplens solute carrier family 35, member F4 (SLC35F4), mRNA
XM_292260	
XM_292301	Homo sapiens similar to developmental pluripotency associated 5; embryona Homo sapiens similar to Golgi autoantigen, golgin subfamily A member 6 (Go
XM_292357	Homo sapiens similar to goigi autoantigen, goigin subramily A member o (Of Homo sapiens similar to zinc finger protein 29 (LOC342132), mRNA
XM_292384	Home contains similar to ATP hinding consetts out family R. member 10. mil
XM_292389	Homo sapiens similar to ATP-binding cassette, sub-family B, member 10, mil
XM_292394	Homo sapiens similar to hypothetical protein FLJ35785 (LOC342167), mRN/
XM_292468	Homo sapiens similar to hypothetical protein (LOC342293), mRNA
XM_292503	Homo sapiens similar to hypothetical protein (LOC342355), mRNA
XM_292504	Homo sapiens similar to hypothetical protein FLJ35867 (LOC342357), mRN/
XM_292512	Homo sapiens similar to Ataxin-1 (Spinocerebellar ataxia type 1 protein home
XM_292527	Homo sapiens similar to Hypothetical protein MGC67567 (LOC342409), mRt
XM_292562	Homo sapiens similar to c439A6.1 (novel protein similar to heparan sulfate (
XM_292573	Homo sapiens similar to testicular Metalloprotease-like, Disintegrin-like, Cyst
XM_292596	Homo sapiens similar to peptidyl-Pro cis trans isomerase (LOC342541), mRI
XM_292624	Homo sapiens similar to hypothetical protein 4932411E22 (LOC342600), mR
XM_292627	Homo sapiens olfactory receptor, family 4, subfamily D, member 1 (OR4D1),

XM_292664	Homo sapiens similar to NADH-ubiquinone oxidoreductase 15 kDa subunit (
XM_292674	Homo sapiens similar to leucine-rich repeat domain-containing protein (LOC
XM_292678	Homo sapiens similar to RIKEN cDNA 2610040E16 (LOC339291), mRNA
XM_292700	Homo sapiens similar to 40S ribosomal protein S2 (LOC342808), mRNA
XM_292707	Homo sapiens similar to TFIIH basal transcription factor complex p62 subuni
XM_292717	Homo sapiens similar to KIAA1074 protein (LOC342850), mRNA
XM_292723	Homo sapiens similar to zinc finger protein 495 (LOC342933), mRNA
XM_292724	Homo sapiens similar to zinc finger protein 495 (LOC342934), mRNA
XM_292729	Homo sapiens similar to double homeobox protein (LOC342939), mRNA
XM_292740	Homo sapiens hypothetical protein LOC342892 (LOC342892), mRNA
XM_292745	Homo sapiens similar to F-box only protein 2 (LOC342897), mRNA
XM_292765	Homo sapiens zinc finger protein 404 (ZNF404), mRNA
XM_292778	Homo sapiens leucine-rich repeats and immunoglobulin-like domains 4 (LRI(
XM_292779	Homo sapiens hypothetical LOC342918 (LOC342918), mRNA
XM_292784	Homo sapiens similar to hypothetical protein (LOC339351), mRNA
XM_292785	Homo sapiens similar to contains transmembrane (TM) region (LOC342865),
XM_292796	Homo saplens similar to ret finger protein-like 1 (LOC342931), mRNA
XM_292803	Homo sapiens similar to Hypothetical protein CBG18249 (LOC342959), mRN
XM_292810	Homo sapiens similar to Zinc finger protein 20 (Zinc finger protein KOX13) (E
XM_292813	Homo sapiens similar to hypothetical protein FLJ38281 (LOC342972), mRN/
XM_292817	Homo sapiens similar to actin 3 - fruit fly (Drosophila melanogaster) (fragmer
XM_292819	Homo sapiens nanos homolog 3 (Drosophila) (NANOS3), mRNA
XM_292820	Homo sapiens hypothetical LOC342979 (LOC342979), mRNA
XM_292824	Homo sapiens similar to hypothetical protein MGC45408 (LOC342969), mRN
XM_292832	Homo sapiens similar to hypothetical protein FLJ12488 (LOC342991), mRN/
XM_292836	Homo sapiens similar to ribosomal protein L34; 60S ribosomal protein L34 (L
XM_292850	Homo sapiens similar to pMesogenin1 (LOC343930), mRNA
XM_292873	Homo sapiens similar to 2010300C02Rik protein (LOC343990), mRNA
XM_292889	Homo sapiens similar to Gnot1 homeodomain protein (LOC344022), mRNA
XM_292895	Homo sapiens similar to zinc finger protein 135 (clone pHZ-17); zinc finger pr
XM_292943	Homo sapiens Nck-associated protein 5 (NAP5), mRNA
XM_292957	Homo sapiens similar to anaphase promoting complex subunit 1; anaphase-
XM_292958	Homo sapiens similar to FoxI1c protein (LOC344167), mRNA
XM_292963	Homo sapiens similar to peptidylprolyl isomerase A (cyclophilin A) (LOC3441
XM_292968	Homo sapiens similar to Homeobox even-skipped homolog protein 2 (EVX-2
XM_292982	Homo saplens similar to pote protein; Expressed in prostate, ovary, testis, ar
XM_293018	Homo sapiens similar to Fatty acid-binding protein, epidermal (E-FABP) (Psc
XM_293026	Homo sapiens similar to UNR-interacting protein (WD-40 repeat protein PT-V
XM_293029	Homo sapiens similar to cyclin-dependent kinase-like 1 (CDC2-related kinase
XM_293034	Homo sapiens similar to RIKEN cDNA 2010316F05 (LOC344405), mRNA
XM_293042	Homo sapiens similar to ribosomal protein S12 (LOC344423), mRNA
XM_293090	Homo sapiens FLJ00204 protein (FLJ00204), mRNA
XM_293092	Homo sapiens G protein-coupled receptor 148 (GPR148), mRNA
XM_293097	Homo sapiens similar to VsaA -like protein (LOC343565), mRNA
XM_293104	Homo sapiens similar to dJ132F21.2 (Contains a novel protein similar to the
XM_293106	Homo sapiens similar to hypothetical protein FLJ32191 (LOC343593), mRN/
XM_293121	Homo sapiens similar to bA379F14.2 (novel protein) (LOC343629), mRNA
XM_293123	Homo sapiens similar to dJ1100H13.4 (putative RhoGAP domain containing
XM_293157	Homo sapiens similar to beta-galactoside alpha-2,3-sialyltransferase (LOC32
XM_293160	Homo sapiens similar to dJ310O13.4 (novel protein similar to predicted C. el
XM_293177	Homo sapiens similar to Zinc finger protein 85 (Zinc finger protein HPF4) (H1
XM_293225	Homo sapiens similar to RIKEN cDNA 4930583C14 (LOC343854), mRNA
XM_293226	Homo sapiens similar to POM121 membrane glycoprotein-like 1 (LOC34385)
XM_293276	Homo sapiens similar to Heat shock 27 kDa protein (HSP 27) (Stress-respon
XM_293284	Homo sapiens similar to Zinc finger protein 81 (HFZ20) (LOC347344), mRN/
XM_293293	Homo sapiens similar to BMP-2 inducible protein kinase (BIKe) (HRIHFB201
XM_293312	Homo sapiens similar to H3 histone, family 3B (LOC347376), mRNA

XM_293320	Homo sapiens similar to bA370B6.1 (similar to histone H2B) (LOC347393), n
XM_293325	Homo sapiens similar to ENSANGP00000015797 (LOC347411), mRNA
XM_293332	Homo sapiens similar to RIKEN cDNA 1700113O17 (LOC340549), mRNA
XM_293334	Homo sapiens similar to KIAA1726 protein (LOC340554), mRNA
XM 293342	Homo sapiens similar to TGF beta-inducible nuclear protein 1 (Hairy cell leuk
XM_293352	Homo sapiens similar to P38IP protein (LOC347438), mRNA
XM 293354	Homo sapiens similar to H326 (LOC347442), mRNA
XM 293360	Homo sapiens similar to hSIAH1 (LOC340571), mRNA
XM 293366	Homo sapiens similar to Olfactory receptor 13H1 (LOC347468), mRNA
XM 293380	Homo sapiens similar to Gliactory receptor 13H (LOC347460), mRNA Homo sapiens similar to hypothetical protein A630014H24 (LOC347454), mF
XM_293387	Homo sapiens similar to hypothetical protein A030014Fi24 (LOC347454), mr Homo sapiens similar to KIAA1892-like (LOC340578), mRNA
XM_293396	
XM_293398	Homo sapiens similar to Heat shock transcription factor, Y-linked (Heat shock
_	Homo sapiens RAB41, member RAS homolog family (RAB41), mRNA
XM_293401	Homo sapiens similar to arylsulfatase (LOC347527), mRNA
XM_293405	Homo sapiens similar to hypothetical protein D430021108 (LOC340595), mR
XM_293407	Homo sapiens similar to melanoma antigen 2 (LOC347541), mRNA
XM_293412	Homo sapiens similar to ribosomal protein L18a; 60S ribosomal protein L18a
XM_293416	Homo sapiens similar to nuclear protein p30 (LOC347549), mRNA
XM_293449	Homo sapiens similar to CYorf16 protein (LOC389915), mRNA
XM_293460	Homo sapiens similar to testis specific protein, Y-linked (LOC347596), mRN/
XM_293514	Homo sapiens similar to CG17293-PA (LOC344620), mRNA
XM_293529	Homo sapiens similar to RIKEN cDNA 4930558O21 (LOC344657), mRNA
XM_293542	Homo sapiens similar to Elongation factor 1-gamma (EF-1-gamma) (eEF-1B
XM_293565	Homo sapiens similar to seven transmembrane helix receptor (LOC344729),
XM_293570	Homo sapiens similar to Heterogeneous nuclear ribonucleoprotein A1 (Helix-
XM_293577	Homo sapiens similar to Arylacetamide deacetylase (AADAC) (LOC344752),
XM 293580	Homo sapiens G protein-coupled receptor 149 (GPR149), mRNA
XM_293581	Homo sapiens similar to seven transmembrane helix receptor (LOC344760),
XM 293596	Homo sapiens similar to peptidylprolyl isomerase A (LOC344797), mRNA
XM 293599	Homo sapiens type II transmembrane serine protease 7 (TMPRSS7), mRNA
XM 293633	Homo sapiens similar to Protein MGC35450/QtsA-16602 (LOC344892), mRN
XM_293656	Homo sapiens similar to ENSANGP0000007226 (LOC339951), mRNA
XM 293669	Homo sapiens similar to actinin, alpha 4 (LOC344978), mRNA
XM 293671	Homo sapiens similar to GTP-binding protein SAR1a (COPII-associated sma
XM 293680	Homo sapiens similar to MGC53273 protein (LOC345051), mRNA
XM_293687	Homo sapiens similar to Miscoss273 protein (200345057), mixiva Homo sapiens similar to RIKEN cDNA 5730467H21 (LOC345079), mRNA
XM_293715	Homo sapiens similar to CG13722-PA (LOC345156), mRNA
_	
XM_293745	Homo sapiens hypothetical LOC345222 (LOC345222), mRNA
XM_293801	Homo sapiens similar to CG32656-PA (LOC345375), mRNA
XM_293802	Homo sapiens similar to UDP-glucuronosyltransferase 2B15 precursor, micro
XM_293821	Homo sapiens similar to profilin 3 (LOC345456), mRNA
XM_293828	Homo sapiens similar to hypothetical protein 9630041N07 (LOC345462), mF
XM_293829	Homo sapiens similar to UNR protein (LOC345463), mRNA
XM_293868	Homo sapiens similar to hypothetical protein (LOC345537), mRNA
XM_293875	Homo sapiens similar to RIKEN cDNA B130016O10 gene (LOC345557), mR
XM_293886	Homo sapiens similar to Ubiquitin carboxyl-terminal hydrolase 7 (Ubiquitin th
XM_293893	Homo sapiens LRG-47-like protein (LRG47), mRNA
XM_293903	Homo sapiens similar to fibrillarin (LOC345630), mRNA
XM_293911	Homo sapiens hypothetical protein FLJ40191 (FLJ40191), mRNA
XM_293918	Homo sapiens similar to geminin (LOC345643), mRNA
XM_293923	Homo sapiens similar to protease (prosome, macropain) 26S subunit, ATPas
XM_293924	Homo sapiens similar to RIKEN cDNA 4732495G21 gene (LOC345651), mR
XM_293927	Homo sapiens similar to template acyivating factor-I alpha (LOC345659), mF
XM_293937	Homo sapiens similar to RIKEN cDNA 0610012A05 (LOC345711), mRNA
XM_293943	Homo sapiens similar to histone (15.4 kD) (his-72) (LOC340096), mRNA
XM_293971	Homo sapiens similar to hypothetical protein (LOC345778), mRNA
XM_293976	Homo sapiens similar to RIKEN cDNA 6430502M16 gene (LOC340120), mR

XM_293984	Homo sapiens similar to Transcription factor BTF3 (RNA polymerase B trans
XM_294017	Homo sapiens solute carrier family 35, member D3 (SLC35D3), mRNA
XM_294019	Homo sapiens similar to Ect2 protein (LOC345930), mRNA
XM_294070	Homo sapiens similar to Glyceraldehyde 3-phosphate dehydrogenase, liver (
XM_294077	Homo sapiens similar to dJ153G14.3 (novel C2H2 type Zinc Finger protein) (
XM 294093	Homo sapiens similar to bA145L22.2 (novel KRAB box containing C2H2 type
XM 294139	Homo sapiens chromosome 6 open reading frame 143 (C6orf143), mRNA
XM 294165	Homo sapiens similar to septin 10 isoform 1 (LOC346288), mRNA
XM 294209	Homo sapiens similar to Unc4.1 homeobox (LOC340260), mRNA
XM_294219	Homo sapiens similar to RIKEN cDNA A930017N06 gene (LOC346355), mR
XM_294247	Homo sapiens similar to Splicing factor, arginine/serine-rich, 46kD (LOC3464
XM 294249	Homo sapiens similar to GluR-delta2 philic-protein (LOC340265), mRNA
XM_294261	Homo sapiens similar to hypothetical protein FLJ22527 (LOC346545), mRN/
XM 294265	Homo sapiens similar to envelope protein (LOC346547), mRNA
XM_294310	Homo sapiens similar to Olfactory receptor 6V1 (LOC346517), mRNA
XM_294311	Homo sapiens similar to Gliactory receptor 60 1 (EOC340317), mixtor Homo sapiens similar to Histidine triad nucleotide-binding protein 1 (Adenosi
XM_294316	Homo sapiens similar to Historije triad hodiectide-billoting protein i (Aderiosi Homo sapiens similar to Olfactory receptor 2A12 (LOC346525), mRNA
XM_294318	Homo sapiens similar to Olfactory receptor 2A12 (LOC346528), mRNA
XM_294319	Homo sapiens similar to Oliaciony receptor 2A1 (LOC340326), mRNA Homo sapiens similar to Importin alpha-2 subunit (Karyopherin alpha-2 subu
XM 294328	
XM_294353	Homo sapiens similar to Protein C6orf66 (HSPC125) (My013 protein) (LOC3-
_	Homo sapiens similar to RIKEN cDNA 6332401019 gene (LOC340344), mR
XM_294354	Homo sapiens similar to 40S ribosomal protein S2 (LOC346643), mRNA
XM_294357	Homo sapiens hypothetical protein LOC346653 (LOC346653), mRNA
XM_294365	Homo sapiens similar to Na+/L-ascorbic acid transporter 1; SVCT1 (LOC346
XM_294370 XM_294383	Homo sapiens guanine nucleotide binding protein, alpha transducing 3 (GNA
XM 294387	Homo sapiens similar to seven transmembrane helix receptor (LOC346708),
XM 294438	Homo sapiens similar to hypothetical protein 8230402K04 (LOC340359), mR
XM 294450	Homo sapiens similar to 60S RIBOSOMAL PROTEIN L5 (LOC346848), mRN Homo sapiens similar to solute carrier family 16 (monocarboxylic acid transp
XM 294456	Homo sapiens similar to solute carrier raining to (monocarboxyiic acid transpired them sapiens similar to putative nuclear protein (4B256) (LOC346910), mRI
XM 294468	Homo sapiens similar to H2A histone family, member Z (LOC346990), mRN/
XM 294473	Homo sapiens similar to ribosomal protein L37 (LOC346950), mRNA
XM_294476	Homo sapiens similar to Interferon-induced transmembrane protein 3 (Interfe
XM 294480	Homo sapiens similar to pote protein; Expressed in prostate, ovary, testis, ar
XM 294521	Homo sapiens FLJ43950 protein (FLJ43950), mRNA
XM 294531	Homo sapiens similar to Olfactory receptor 1J1 (LOC347168), mRNA
XM 294533	Homo sapiens olfactory receptor, family 1, subfamily J, member 4 (OR1J4), r
XM 294534	Homo sapiens similar to Olfactory receptor 1B1 (Olfactory receptor 9-B) (OR
XM 294540	Homo sapiens similar to cancer related gene-liver 1 (LOC340485), mRNA
XM 294567	Homo sapiens similar to bA113O24.1 (similar to insulin-like growth factor bin
XM 294568	Homo sapiens similar to transcription elongation factor IIS - mouse (LOC340
XM 294574	Homo sapiens similar to A-kinase anchor protein 8; A-kinase anchor protein,
XM_294581	Homo sapiens similar to ribosomal protein L36; 60S ribosomal protein L36 (L
XM 294584	Homo sapiens similar to hypothetical protein FLJ40432 (LOC347262), mRN/
XM_294590	Homo sapiens similar to bA13B9.3 (novel protein similar to KRT8) (LOC3472
XM 294592	Homo sapiens similar to RIKEN cDNA 2310039E09 (LOC347273), mRNA
XM_294634	Homo sapiens similar to alpha-2 macroglobulin family protein VIP (LOC3402
XM 294666	Homo sapiens hypothetical LOC338616 (LOC338616), mRNA
XM 294675	Homo sapiens hypothetical protein LOC338667 (LOC338667), mRNA
XM 294680	Homo sapiens hypothetical protein LOC338694 (LOC338694), mRNA
XM 294688	Homo sapiens hypothetical LOC338731 (LOC338731), mRNA
XM 294692	Homo sapiens hypothetical LOC338749 (LOC338749), mRNA
XM 294723	Homo sapiens hypothetical LOC338825 (LOC338825), mRNA
XM 294743	Homo sapiens hypothetical LOC338918 (LOC338918), mRNA
XM_294750	Homo sapiens hypothetical LOC338951 (LOC338951), mRNA
XM_294751	Homo sapiens similar to RIKEN cDNA 4930425N13 (LOC338949), mRNA
XM_294765	Homo sapiens similar to FLJ40113 protein (LOC388154), mRNA

XM_294775	Homo sapiens hypothetical LOC339022 (LOC339022), mRNA
XM_294778	Homo sapiens hypothetical LOC339025 (LOC339025), mRNA
XM_294794	Homo sapiens similar to putative membrane-bound dipeptidase-2 (LOC3390
XM_294802	Homo sapiens hypothetical LOC339077 (LOC339077), mRNA
XM_294854	Homo sapiens hypothetical LOC339209 (LOC339209), mRNA
XM_294867	Homo sapiens hypothetical LOC339226 (LOC339226), mRNA
XM 294894	Homo sapiens hypothetical LOC339281 (LOC339281), mRNA
XM 294906	Homo sapiens hypothetical LOC339306 (LOC339306), mRNA
XM 294910	Homo sapiens hypothetical LOC339352 (LOC339352), mRNA
XM 294914	Homo sapiens hypothetical LOC339358 (LOC339358), mRNA
XM 294919	Homo sapiens hypothetical protein LOC339366 (LOC339366), mRNA
XM 294922	Homo sapiens hypothetical LOC339375 (LOC339375), mRNA
XM_294960	Homo sapiens hypothetical LOC339453 (LOC339453), mRNA
XM 294963	Homo sapiens LOC388583 (LOC388583), mRNA
	· · · · · · · · · · · · · · · · · · ·
XM_294993	Homo sapiens hypothetical protein LOC339529 (LOC339529), mRNA
XM_294997	Homo sapiens hypothetical LOC339541 (LOC339541), mRNA
XM_295007	Homo sapiens hypothetical LOC339583 (LOC339583), mRNA
XM_295017	Homo sapiens chromosome 21 open reading frame 54 (C21orf54), mRNA
XM_295034	Homo sapiens hypothetical LOC339693 (LOC339693), mRNA
XM_295058	Homo sapiens hypothetical LOC339760 (LOC339760), mRNA
XM_295059	Homo sapiens hypothetical LOC339771 (LOC339771), mRNA
XM_295062	Homo sapiens hypothetical LOC339782 (LOC339782), mRNA
XM_295091	Homo sapiens hypothetical LOC339875 (LOC339875), mRNA
XM_295096	Homo sapiens hypothetical LOC339899 (LOC339899), mRNA
XM_295097	Homo sapiens hypothetical LOC339902 (LOC339902), mRNA
XM_295120	Homo sapiens hypothetical LOC339985 (LOC339985), mRNA
XM_295126	Homo sapiens hypothetical LOC339997 (LOC339997), mRNA
XM_295146	Homo sapiens hypothetical LOC340065 (LOC340065), mRNA
XM_295155	Homo sapiens hypothetical protein LOC340094 (LOC340094), mRNA
XM 295166	Homo sapiens hypothetical LOC340148 (LOC340148), mRNA
XM 295169	Homo sapiens hypothetical LOC340149 (LOC340149), mRNA
XM_295178	Homo sapiens hypothetical LOC340171 (LOC340171), mRNA
XM_295195	Homo sapiens similar to Matn2-prov protein (LOC340267), mRNA
XM 295200	Homo sapiens hypothetical LOC340286 (LOC340286), mRNA
XM_295205	Homo sapiens hypothetical LOC340349 (LOC340349), mRNA
XM_295213	Homo sapiens hypothetical LOC340346 (LOC340346), mRNA
XM_295252	Homo sapiens hypothetical LOC340450 (LOC340450), mRNA
XM_295257	Homo sapiens hypothetical LOC340477 (LOC340477), mRNA
XM 295261	Homo sapiens hypothetical LOC340511 (LOC340511), mRNA
XM_295261 XM_295263	Homo sapiens hypothetical protein LOC340508 (LOC340508), mRNA
_	Homo sapiens hypothetical protein LOC340581 (LOC340581), mRNA
XM_295270	
XM_295309	Homo sapiens similar to putative neuronal cell adhesion molecule (LOC3430
XM_295598	Homo sapiens hypothetical LOC343484 (LOC343484), mRNA
XM_295865	Homo sapiens similar to apical early endosomal glycoprotein precursor (LOC
XM_296117	Homo sapiens similar to Heterogeneous nuclear ribonucleoprotein A1 (Helix-
XM_296315	Homo sapiens similar to 60S ribosomal protein L35 (LOC341604), mRNA
XM_296817	Homo sapiens similar to hypothetical protein DKFZp434P0316 (LOC342346)
XM_297205	Homo sapiens hypothetical LOC342900 (LOC342900), mRNA
XM_297687	Homo sapiens similar to transmembrane protein 16C; chromosome 11 open
XM_297816	Homo sapiens similar to dJ824F16.3 (novel protein similar to mouse thrombo
XM_298045	Homo sapiens hypothetical LOC347475 (LOC347475), mRNA
XM_298053	Homo sapiens hypothetical LOC347487 (LOC347487), mRNA
XM_298151	Homo sapiens hypothetical LOC344595 (LOC344595), mRNA
XM_298233	Homo sapiens similar to hypothetical protein FLJ38348 (LOC344709), mRN/
XM_301210	Homo sapiens similar to testis-specific protein NYD-TSP1 (LOC388775), mR
XM_350780	Homo sapiens KIAA0592 protein (KIAA0592), mRNA
XM_350880	Homo sapiens ras homolog gene family, member C like 1 (ARHCL1), mRNA

XM_351335	
XM_351366	Homo sapiens similar to dJ309K20.1.1 (novel protein similar to dysferlin, isof
XM_351473	Homo sapiens similar to GLYCEROL-3-PHOSPHATE ACYLTRANSFERASE
XM_351574	Homo sapiens similar to Succinate dehydrogenase [ubiquinone] flavoprotein
XM_351617	Homo sapiens similar to dJ28I24.1.2 (Spinal Muscular Atrophy region (SMA3
XM 351723	
XM 351854	Homo sapiens similar to cDNA sequence BC034076 (LOC389797), mRNA
XM_351948	Homo sapiens similar to Transcript Y 7 protein (LOC389916), mRNA
XM_352159	Homo sapiens similar to hypothetical protein LOC339047 (LOC388215), mRI
XM 352463	Homo sapiens similar to myoferlin isoform b; fer-1-like 3 (LOC391408), mRN
XM_352847	Homo sapiens hypothetical protein LOC340529 (LOC340529), mRNA
XM_353628	
XM_370532	
XM 370533	Homo sapiens similar to eukaryotic initiation factor 4B (LOC387637), mRNA
XM 370534	Homo sapiens similar to RIKEN cDNA E130012A19 (LOC387640), mRNA
XM 370536	Homo sapiens similar to RIKEN cDNA 4921522E24 (LOC387642), mRNA
XM_370537	
XM_370538	Home sapiens similar to amyloid beta (A4) precursor protein-binding, family 1
XM_370541 XM_370542	Homo sapiens FLJ44037 protein (FLJ44037), mRNA
XM_370542 XM_370543	
XM_370545	
XM_370545 XM_370554	
	Homo sapiens similar to ARF GTPase-activating protein (LOC387671), mRN
XM_370555 XM_370557	Homo sapiens similar to Glutamate dehydrogenase, mitochondrial precursor
	Homo sapiens similar to KIAA0592 protein (LOC387676), mRNA
XM_370560	Homo sapiens similar to ADP-ribosylation factor-like protein 4 (LOC387684),
XM_370562	Homo sapiens LOC399782 (LOC387688), mRNA
XM_370564 XM_370565	Homo sapiens similar to BMS1-like, ribosome assembly protein; ribosome bid
	Homo sapiens similar to hypothetical protein FLJ20967 (LOC387694), mRN/
XM_370566	Homo sapiens similar to RLLV1833 (LOC387695), mRNA
XM_370567	Homo sapiens KIAA1975 protein similar to MRIP2 (KIAA1975), mRNA
XM_370569	Homo sapiens similar to expressed sequence AW210596 (LOC387700), mR
XM_370570	Homo sapiens similar to hypothetical protein FLJ25224 (LOC387702), mRN/
XM_370571 XM_370573	Homo sapiens similar to ATP-dependent DNA helicase II, 70 kDa subunit (Lu
XM_370575	Homo sapiens similar to KIAA1345 protein (LOC387707), mRNA
	Homo sapiens hypothetical protein MGC11279 (MGC11279), mRNA
XM_370577	Homo sapiens similar to RIKEN cDNA 6430537H07 gene (LOC387712), mR
XM_370580	Homo sapiens similar to Hmx2 protein (LOC387716), mRNA
XM_370582	Homo sapiens hypothetical gene supported by BC062717 (LOC387718), mR
XM_370584	Homo sapiens hypothetical gene supported by AK127642 (LOC387720), mR
XM_370585	Homo sapiens similar to bA442O18.2 (novel protein) (LOC387721), mRNA
XM_370586	Homo sapiens LOC399826 (LOC387723), mRNA
XM_370589	Homo sapiens similar to double homeobox protein (LOC387727), mRNA
XM_370591	Homo sapiens similar to hypothetical protein MGC5560 (LOC387728), mRN/
XM_370593	Homo sapiens similar to double homeobox protein (LOC387729), mRNA
XM_370597	Homo sapiens similar to putative haemopoietic membrane protein (LOC3877
XM_370603	Homo sapiens similar to SB153 protein (LOC387745), mRNA
XM_370605	Homo sapiens similar to seven transmembrane helix receptor (LOC387748),
XM_370606	Homo sapiens hypothetical gene supported by BX647806 (LOC387749), mR
XM_370607	Homo sapiens similar to SI:zC220F6.1 (novel protein similar to human dyneii
XM_370610	Homo sapiens similar to 60S ribosomal protein L23a (LOC387752), mRNA
XM_370610 XM_370611	Homo sapiens similar to 60S ribosomal protein L23a (LOC387752), mRNA Homo sapiens similar to 60S ribosomal protein L21 (LOC387753), mRNA
XM_370610 XM_370611 XM_370612	Homo sapiens similar to 60S ribosomal protein L23a (LOC387752), mRNA Homo sapiens similar to 60S ribosomal protein L21 (LOC387753), mRNA Homo sapiens calcitonin-related polypeptide, beta (CALCB), mRNA
XM_370610 XM_370611 XM_370612 XM_370613	Homo sapiens similar to 60S ribosomal protein L23a (LOC387752), mRNA Homo sapiens similar to 60S ribosomal protein L21 (LOC387753), mRNA Homo sapiens calcitonin-related polypeptide, beta (CALCB), mRNA Homo sapiens similar to RIKEN cDNA 3830422K02 (LOC387755), mRNA
XM_370610 XM_370611 XM_370612 XM_370613 XM_370615	Homo sapiens similar to 60S ribosomal protein L23a (LOC387752), mRNA Homo sapiens similar to 60S ribosomal protein L21 (LOC387753), mRNA Homo sapiens calcitonin-related polypeptide, beta (CALCB), mRNA Homo sapiens similar to RIKEN cDNA 3830422K02 (LOC387755), mRNA Homo sapiens hypothetical protein DKFZp686O24166 (DKFZp686O24166),
XM_370610 XM_370611 XM_370612 XM_370613	Homo sapiens similar to 60S ribosomal protein L23a (LOC387752), mRNA Homo sapiens similar to 60S ribosomal protein L21 (LOC387753), mRNA Homo sapiens calcitonin-related polypeptide, beta (CALCB), mRNA Homo sapiens similar to RIKEN cDNA 3830422K02 (LOC387755), mRNA

XM_370619	Homo sapiens similar to mitochondrial carrier protein MGC4399 (LOC38776)
XM_370621	Homo sapiens similar to tripartite motif protein 48; TRIM48 (LOC387770), mF
XM_370622	Homo sapiens similar to seven transmembrane helix receptor (LOC387772),
XM_370623	Homo sapiens similar to MGC15937 protein (LOC387773), mRNA
XM_370629	Homo sapiens similar to organic anion transporter 6 (LOC387775), mRNA
XM_370630	Homo sapiens protein phosphatase 1, regulatory (inhibitor) subunit 14B (PPF
XM_370631	Homo sapiens similar to p33 ringo (LOC387778), mRNA
XM_370632	Homo sapiens similar to phosphoglycerate mutase 1 (brain) (LOC387779), rr
XM_370633	Homo sapiens similar to solute carrier family 22 member 6; organic cationic t
XM_370634	Homo sapiens similar to UBIQUITIN-LIKE PROTEIN FUBI (LOC387781), mF
XM_370635	Homo sapiens KIAA0280 protein (KIAA0280), mRNA
XM_370636	Homo sapiens similar to RIKEN cDNA 2610209A20 (LOC387787), mRNA
XM_370638	Homo sapiens LOC399929 (LOC387790), mRNA
XM_370639	Homo sapiens similar to Mitochondrial import receptor subunit TOM20 homo
XM_370642	Homo sapiens LOC399932 (LOC387795), mRNA
XM_370644	Homo sapiens similar to tripartite motif-containing 43 (LOC387800), mRNA
XM_370648	Homo sapiens LOC399943 (LOC387804), mRNA
XM_370649	Homo sapiens similar to ARP2/3 complex 21 kDa subunit (p21-ARC) (Actin-r
XM_370651	Homo sapiens hypothetical protein FLJ32810 (FLJ32810), mRNA
XM_370652	Homo sapiens dynein, cytoplasmic, heavy polypeptide 2 (DNCH2), mRNA
XM_370653	Homo sapiens KIAA1826 protein (KIAA1826), mRNA
XM_370654	Homo sapiens KIAA1726 protein (KIAA1726), mRNA
XM_370657	Homo sapiens placenta expressed transcript 1 (PLET1), mRNA
XM_370658	Homo sapiens similar to hypothetical protein FLJ25224 (LOC387811), mRN/
XM_370660	Homo sapiens KIAA1201 protein (KIAA1201), mRNA
XM_370661	Homo sapiens similar to seven transmembrane helix receptor (LOC387815),
XM_370662	Homo sapiens olfactory receptor, family 8, subfamily G, member 2 (OR8G2),
XM_370663	Homo sapiens retinoblastoma inhibiting gene 1 (RBIG1), mRNA
XM_370664	Homo sapiens similar to hypothetical protein (LOC387816), mRNA
XM_370665 XM_370666	Homo sapiens similar to DnaJ (Hsp40) homolog, subfamily B, member 6 isof Homo sapiens similar to hypothetical protein (LOC387822), mRNA
XM 370667	Homo sapiens KIAA1110 protein (KIAA1110), mRNA
XM_370668	Homo sapiens similar to ribosomal protein L13a; 60S ribosomal protein L13a
XM_370669	Homo sapiens homeobox C14 (LOC360030), mRNA
XM_370672	Homo sapiens similar to hypothetical protein SB153 isoform 1 (LOC387830),
XM_370674	Homo sapiens similar to helicase (LOC387832), mRNA
XM_370675	Homo sapiens similar to DKFZp434C0631 protein (LOC387834), mRNA
XM 370678	Homo sapiens similar to INPE5792 (LOC387836), mRNA
XM_370681	Homo sapiens similar to ribosomal protein L13a; 60S ribosomal protein L13a
XM 370682	Homo sapiens KIAA1467 protein (KIAA1467), mRNA
XM 370684	Homo sapiens similar to Elongation factor 1-alpha 1 (EF-1-alpha-1) (Elongati
XM_370685	Homo sapiens hypothetical protein LOC144363 (LOC144363), mRNA
XM_370686	Homo sapiens similar to RIKEN cDNA 2210417D09 (LOC387849), mRNA
XM 370687	Homo sapiens similar to ribosomal protein L13a; 60S ribosomal protein L13a
XM_370688	Homo sapiens similar to Adenylate kinase isoenzyme 4, mitochondrial (ATP-
XM_370690	Homo sapiens AT rich interactive domain 2 (ARID, RFX-like) (ARID2), mRNA
XM_370691	Homo sapiens similar to expressed sequence Al836003 (LOC387856), mRN
XM_370692	Homo sapiens hypothetical protein LOC121006 (LOC121006), mRNA
XM_370693	Homo sapiens POU domain, class 6, transcription factor 1 (POU6F1), mRNA
XM_370695	Homo sapiens similar to K+ channel tetramerization protein (LOC387861), m
XM_370696	Homo sapiens hypothetical protein FLJ34236 (FLJ34236), mRNA
XM_370697	Homo sapiens similar to 40S ribosomal protein SA (P40) (34/67 kDa laminin
XM_370699	Homo sapiens protein tyrosine phosphatase, receptor type, Q (PTPRQ), mRI
XM_370702	Homo sapiens FYVE, RhoGEF and PH domain containing 6 (FGD6), mRNA
XM_370704	Homo sapiens similar to 10 KD HEAT SHOCK PROTEIN, MITOCHONDRIAL
XM_370705	Homo sapiens LOC400067 (LOC387881), mRNA
XM_370707	Homo sapiens similar to hypothetical protein C130069F04 (LOC387890), mF

XM_370709	Homo sapiens LOC400085 (LOC387894), mRNA
XM_370710	Homo sapiens similar to protein 40kD (LOC387902), mRNA
XM_370711	Homo sapiens similar to hypothetical protein (LOC387904), mRNA
XM_370713	Homo sapiens similar to bA271B5.1 (similar to ribosomal protein S7) (LOC38
XM_370714	Homo sapiens similar to Ferritin heavy chain (Ferritin H subunit) (LOC38790)
XM_370715	Homo sapiens similar to hypothetical protein MGC48915 (LOC387911), mRN
XM_370716	Homo sapiens similar to TPTE and PTEN homologous inositol lipid phosphat
XM_370718	Homo sapiens similar to WGAR9166 (LOC387914), mRNA
XM_370721	Homo sapiens similar to bA251J8.3.1 (novel protein, isoform 1) (LOC387920
XM_370722	Homo sapiens similar to RIKEN cDNA 8030451K01 (LOC387921), mRNA
XM_370723	Homo sapiens similar to tubulin, beta 5 (LOC387922), mRNA
XM_370724	Homo sapiens similar to ribosome associated membrane protein 4 (LOC387)
XM_370725	Homo sapiens similar to KIAA1612 protein (LOC387924), mRNA
XM_370726	Homo sapiens similar to BB049667 protein (LOC387927), mRNA
XM_370727	Homo sapiens similar to ribosomal protein L13a; 60S ribosomal protein L13a
XM_370728	Homo sapiens similar to heterogeneous nuclear ribonucleoprotein A3 (LOC3
XM_370729	Homo sapiens similar to Fatty acid-binding protein, epidermal (E-FABP) (Psc
XM_370731	Homo sapiens similar to expressed sequence AW121567 (LOC387944), mR
XM_370732	Homo sapiens similar to expressed sequence AW121567 (LOC387945), mR
XM_370733	Homo sapiens LOC400166 (LOC387949), mRNA
XM_370734	Homo sapiens hypothetical gene supported by BC034570 (LOC387952), mR
XM_370737	Homo sapiens hypothetical protein FLJ10357 (FLJ10357), mRNA
XM_370738	Homo sapiens helicase with SNF2 domain 1 (HELSNF1), mRNA
XM_370754	Homo sapiens thiamine triphosphatase (THTPA), mRNA
XM_370756	Homo sapiens KIAA1305 (KIAA1305), mRNA
XM_370758	Homo sapiens hypothetical gene supported by BX248251 (LOC387978), mR
XM_370759	Homo sapiens similar to RIKEN cDNA D930036F22 gene (LOC387979), mR
XM_370760	Homo sapiens similar to 60S RIBOSOMAL PROTEIN L12 (LOC387982), mR
XM_370762	Homo sapiens similar to TIMM9 (LOC387990), mRNA
XM_370763	Homo sapiens similar to ribosomal protein L31 (LOC387991), mRNA
XM_370765	Homo sapiens papilin, proteoglycan-like sulfated glycoprotein (PAPLN), mRN
XM_370767	Homo sapiens chromosome 14 open reading frame 46 (C14orf46), mRNA
XM_370768	Homo sapiens similar to Acylphosphatase, organ-common type isozyme (Ac
XM_370769	Homo sapiens hypothetical protein LOC161394 (LOC161394), mRNA
XM_370772	Homo sapiens similar to protease inhibitor (LOC388007), mRNA
XM_370776	Homo sapiens similar to RTI1 (LOC388015), mRNA
XM_370777	Homo sapiens Similar to Lysophospholipase (LOC374569), mRNA
XM_370778	Homo sapiens similar to expressed sequence Al839735 (LOC388021), mRN
XM_370779	Homo sapiens hypothetical gene supported by AK131040 (LOC388022), mR
XM_370781	Homo sapiens similar to Ig alpha-2 chain C region (LOC388025), mRNA
XM_370782 XM_370785	Homo sapiens similar to Ig epsilon chain C region (LOC388026), mRNA
	Homo sapiens chromosome 14 open reading frame 81 (C14orf81), mRNA
XM_370826	Homo sapiens similar to breast cancer antigen NY-BR-1 (LOC388065), mRN
XM_370829 XM_370830	Homo sapiens similar to camitine deficiency-associated gene expressed in v
XM_370831	Homo sapiens similar to breast cancer anti-estrogen resistance 1; Crk-assoc
XM_370831 XM_370832	Homo sapiens similar to Ribosome biogenesis protein BMS1 homolog (LOC:
XM_370832 XM_370833	Homo sapiens similar to Ribosome biogenesis protein BMS1 homolog (LOC:
XM_370834	Homo sapiens similar to 40S ribosomal protein S8 (LOC388076), mRNA
XM_370835	Homo sapiens similar to immunoglobulin heavy chain variable region (LOC3)
XM_370836	Homo sapiens similar to FLJ27099 protein (LOC388078), mRNA
XM_370837	Homo sapiens similar to ZCCHC2 protein (LOC388079), mRNA
XM_370838	Homo sapiens similar to hypothetical protein (LOC388080), mRNA
XM_370839	Homo sapiens hypothetical protein LOC339005 (LOC339005), mRNA Homo sapiens similar to golgin-67 isoform b (LOC388084), mRNA
XM_370840	Homo sapiens similar to goigin-67 isoform b (LOC388084), mRNA Homo sapiens similar to hypothetical protein (LOC388085), mRNA
XM_370843	Homo sapiens similar to hypothetical protein (LOC388085), mRNA Homo sapiens similar to hypothetical protein (LOC388092), mRNA
XM_370844	Homo sapiens similar to hypothetical protein (LOC388092), mRNA Homo sapiens similar to hypothetical protein (LOC388094), mRNA
	The sapidite difficial to hypothetical protein (LOC380094), MKNA

XM_370845	Homo sapiens similar to hyperpolarization activated cyclic nucleotide-gated p
XM_370846	Homo sapiens similar to hypothetical protein FLJ35785 (LOC388098), mRN/
XM_370848	Homo sapiens similar to chromosome 1 open reading frame 37 (LOC388104
XM_370849	Homo sapiens similar to hyperpolarization activated cyclic nucleotide-gated p
XM_370851	Homo sapiens similar to hypothetical protein FLJ35785 (LOC388109), mRN/
XM_370852	Homo sapiens similar to 4930563P21Rik protein (LOC388110), mRNA
XM_370853	Homo sapiens similar to Nanog homeobox; homeobox transcription factor Na
XM_370855	Homo sapiens similar to RIKEN cDNA 2600011L02 (LOC388115), mRNA
XM_370856	Homo sapiens similar to RIKEN cDNA 6720467C03 (LOC388116), mRNA
XM_370858	Homo sapiens similar to kinesin-like protein (LOC388118), mRNA
XM_370863	Homo sapiens ATPase, Class I, type 8B, member 4 (ATP8B4), mRNA
XM_370864	Homo sapiens similar to TNF-induced protein (LOC388121), mRNA
XM_370865	Homo sapiens similar to Laminin receptor 1 (LOC388122), mRNA
XM_370866	Homo sapiens hypothetical protein FLJ25756 (FLJ25756), mRNA
XM_370867	Homo sapiens hypothetical protein FLJ20086 (FLJ20086), mRNA
XM_370868	Homo sapiens similar to hypothetical LOC237397 (LOC388125), mRNA
XM_370871	Homo sapiens hypothetical protein LOC145837 (LOC145837), mRNA
XM_370872	Homo sapiens similar to 60S ribosomal protein L17 (L23) (LOC388132), mRI
XM_370873	Homo sapiens similar to RIKEN cDNA 6030419C18 gene (LOC388135), mR
XM_370876	Homo sapiens similar to Golgi autoantigen, golgin subfamily A member 6 (Go
XM_370878	Homo sapiens KIAA2002 protein (KIAA2002), mRNA
XM_370879	Homo sapiens similar to 60S ribosomal protein L21 (LOC388143), mRNA
XM_370880	Homo sapiens mesoderm development candidate 2 (MESDC2), mRNA
XM_370881	Homo sapiens similar to FLJ40113 protein (LOC388146), mRNA
XM_370882	Homo sapiens similar to ribosomal protein L9; 60S ribosomal protein L9 (LO
XM_370883	Homo sapiens LOC400417 (LOC388148), mRNA
XM_370886	Homo sapiens similar to FLJ40113 protein (LOC388151), mRNA
XM_370887	Homo sapiens LOC400422 (LOC388153), mRNA
XM_370893	Homo sapiens similar to hypothetical protein FLJ13119 (LOC388159), mRN/
XM_370894	Homo sapiens LOC400427 (LOC388160), mRNA
XM_370895	Homo sapiens LOC400432 (LOC388163), mRNA
XM_370897	Homo sapiens similar to RIKEN cDNA 3010021M21 (LOC388165), mRNA
XM_370898	Homo sapiens similar to FLJ40113 protein (LOC388166), mRNA
XM_370899	Homo sapiens similar to FLJ40113 protein (LOC388167), mRNA
XM_370904	Homo sapiens similar to hypothetical protein 4921538O11 (LOC388173), mF
XM_370905	Homo sapiens similar to Golgi autoantigen, golgin subfamily a, 2; golgin-95;
XM_370906	Homo sapiens similar to hypothetical protein FLJ20147 (LOC388175), mRN/
XM_370908	Homo sapiens similar to cyclin-E binding protein 1 (H. sapiens) (MGC14386)
XM_370909	Homo sapiens similar to H2A histone family, member V isoform 2; histone H2
XM_370910	Homo sapiens similar to KIAA0974 protein (LOC388181), mRNA
XM_370911	Homo sapiens hypothetical gene supported by AK124283 (LOC388182), mR
XM_370917	Homo sapiens similar to hypothetical protein (LOC388189), mRNA
XM_370918	Homo sapiens hypothetical protein DKFZp434P162 (DKFZp434P162), mRN/
XM_370924	Homo sapiens LOC400486 (LOC388199), mRNA
XM_370925	Homo sapiens hypothetical protein LOC283951 (LOC283951), mRNA
XM_370926	Homo sapiens similar to KIAA0445 protein (LOC388202), mRNA
XM_370927	Homo sapiens ring finger protein 151 (RNF151), mRNA
XM_370928	Homo sapiens KIAA1171 protein (KIAA1171), mRNA Homo sapiens similar to RIKEN cDNA 1520401A03 gene (LOC388205), mR
XM_370930	Homo sapiens olfactory receptor, family 1, subfamily F, member 2 (OR1F2),
XM_370931	Homo sapiens offactory receptor, family 1, subfamily P, member 2 (OR 172), Homo sapiens hypothetical protein FLJ39639 (FLJ39639), mRNA
XM_370932	Homo sapiens similar to CG15828-PA (LOC388210), mRNA
XM_370934	Homo sapiens LOC400498 (LOC388211), mRNA
XM_370935	Homo sapiens similar to QRWT5810 (LOC388218), mRNA
XM_370938	Homo sapiens similar to KIAA0220 (LOC388221), mRNA
XM_370939	Homo sapiens similar to carbonic anhydrase VA, mitochondrial precursor; ca
XM_370942 XM_370943	Homo sapiens similar to MGC9515 protein (LOC400510), mRNA
VINI_910940	From suprotto difficial to moodo to protein (200 1000 10), in a a .

XM 370944	Homo sapiens hypothetical protein LOC146177 (LOC146177), mRNA
XM_370946	Homo sapiens similar to protein kinase/ribonuclease IRE1 beta (LOC388226
XM 370947	Homo sapiens ER to nucleus signalling 2 (ERN2), mRNA
XM_370948	Homo sapiens similar to SH3-binding kinase (LOC388228), mRNA
XM_370949	Homo sapiens similar to Group X secretory phospholipase A2 precursor (Pho
	Homo sapiens similar to MGC9515 protein (LOC388233), mRNA
XM_370952	
XM_370958	Homo sapiens similar to nuclear pore complex interacting protein (LOC3882)
XM_370959	Homo sapiens similar to RRN3 (LOC388238), mRNA
XM_370965	Homo sapiens similar to hypothetical protein BC011981 (LOC388242), mRN.
XM_370966	Homo sapiens similar to carbonic anhydrase VA, mitochondrial precursor; ca
XM_370967	Homo sapiens hypothetical protein LOC124411 (LOC124411), mRNA
XM_370968	Homo sapiens similar to KIAA1501 protein (LOC388248), mRNA
XM_370972	Homo sapiens similar to Adrenoleukodystrophy protein (ALDP) (LOC388253)
XM_370973	Homo sapiens similar to KIAA1501 protein (LOC388255), mRNA
XM_370974	Homo sapiens similar to NY-REN-7 antigen (LOC388258), mRNA
XM_370975	Homo sapiens similar to protein kinase related to Raf protein kinases; Metho
XM_370977	Homo sapiens similar to immunoglobulin heavy chain VH3 (LOC388264), mF
XM_370980	Homo sapiens similar to RAB41 (LOC388271), mRNA
XM_370981	Homo sapiens similar to RIKEN cDNA 4921524J17 (LOC388272), mRNA
XM_370982	Homo sapiens similar to Heterogeneous nuclear ribonucleoprotein A1 (Helix-
XM_370984	Homo sapiens LOC388284 (LOC388284), mRNA
XM_370986	Homo sapiens similar to hypothetical protein (L1H 3 region) - human (LOC38
XM_370987	Homo sapiens LOC388289 (LOC388289), mRNA
XM_370988	Homo sapiens similar to protein 40kD (LOC388290), mRNA
XM_370991	Homo sapiens similar to hypothetical protein - fruit fly (Drosophila melanogas
XM 370992	Homo sapiens LOC388298 (LOC388298), mRNA
XM_370993	Homo sapiens similar to coenzyme A diphosphatase (LOC388299), mRNA
XM_370995	Homo sapiens snail homolog 3 (Drosophila) (SNAI3), mRNA
XM_370997	Homo sapiens similar to Brain-type organic cation transporter (Solute carrier
XM_371001	Homo sapiens LOC388317 (LOC388317), mRNA
XM_371006	Homo sapiens similar to RIKEN cDNA C730027E14 (LOC388323), mRNA
XM_371008	Homo sapiens similar to Death effector filament-forming Ced-4-like apoptosis
XM_371009	Homo sapiens LOC388327 (LOC388327), mRNA
XM_371010	Homo sapiens hypothetical protein MGC49942 (MGC49942), mRNA
XM_371012	Homo sapiens similar to ENSANGP00000015193 (LOC388329), mRNA
XM_371013	Homo sapiens similar to Gag-Pro-Pol protein (LOC388332), mRNA
XM_371014	Homo sapiens similar to Williams Beuren syndrome chromosome region 19 t
XM 371015	Homo sapiens ubiquitin specific protease 43 (USP43), mRNA
XM_371016	Homo sapiens similar to RIKEN cDNA A730055C05 gene (LOC388335), mR
XM_371017	Homo sapiens similar to hypothetical protein D430041B17 (LOC388336), mF
XM_371018	Homo sapiens similar to CDRT15 protein (LOC388337), mRNA
XM 371019	Homo sapiens similar to ribosomal protein (LOC388339), mRNA
XM_371020	Homo sapiens LOC388341 (LOC388341), mRNA
XM_371023	Homo sapiens similar to ribosomal protein L13; 60S ribosomal protein L13; b
XM 371024	Homo sapiens similar to poly(A) binding protein interacting protein 1 isoform
XM 371026	Homo sapiens similar to hypothetical protein FLJ10847 (LOC388351), mRN/
XM 371028	Homo sapiens similar to AF038169 protein (LOC388353), mRNA
XM_371032	Homo sapiens similar to bB329D4.2.1 (novel protein similar to a truncated nu
XM 371034	Homo sapiens similar to PDZ and LIM domain 1 (elfin); carboxy terminal LIM
XM_371035	Homo sapiens similar to 40S ribosomal protein S7 (S8) (LOC388363), mRN/
XM_371036	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA
XM_371039	Homo sapiens hypothetical protein MGC19764 (MGC19764), mRNA
XM_371043	Homo sapiens similar to TBC1 domain family member 3 (Rab GTPase-active
XM_371046	Homo sapiens similar to TBC1 domain family member 3 (Rab GTPase-active
XM_371052	Homo sapiens Nck, Ash and phospholipase C binding protein (NAP4), mRN/
XM 371053	Homo sapiens LOC388381 (LOC388381), mRNA
XM_371054	Homo sapiens LOC388382 (LOC388382), mRNA

XM_371056	Homo sapiens similar to RIKEN cDNA 4933439F11 (LOC388389), mRNA
XM_371057	Homo sapiens hypothetical protein LOC201175 (LOC201175), mRNA
XM_371058	Homo sapiens similar to KIAA0563 gene product (LOC388391), mRNA
XM_371059	Homo sapiens similar to FALZ protein (LOC388392), mRNA
XM_371062	Homo sapiens similar to Hypothetical protein KIAA0563 (LOC388395), mRN,
XM_371063	Homo sapiens similar to KIAA0563 gene product (LOC388396), mRNA
XM_371066	Homo sapiens similar to SMT3 suppressor of mif two 3 homolog 2 (LOC3883
XM_371067	Homo sapiens similar to Eukaryotic translation initiation factor 4E (eIF4E) (el
XM_371068	Homo sapiens similar to ribosomal protein L7 (LOC388401), mRNA
XM 371069	Homo sapiens similar to 40S ribosomal protein S2 (LOC388402), mRNA
XM_371070	Homo sapiens similar to Yippee-like protein 2 (DiGeorge syndrome-related p
XM 371074	Homo sapiens putative ankyrin-repeat containing protein (DKFZP564D166),
XM 371077	Homo sapiens similar to PP905 (LOC388413), mRNA
XM 371078	Homo sapiens similar to galectin 3 binding protein; L3 antigen; Mac-2-binding
XM_371079	Homo sapiens Fas binding protein 1 (FBF-1), mRNA
XM_371081	Homo sapiens LOC388424 (LOC388424), mRNA
XM 371082	Homo sapiens hypothetical protein FLJ20753 (FLJ20753), mRNA
XM 371083	Homo sapiens LOC388428 (LOC388428), mRNA
XM 371084	Homo sapiens KIAA1447 protein (KIAA1447), mRNA
XM_371085	Homo sapiens hypothetical protein LOC339229 (LOC339229), mRNA
XM_371086	Homo sapiens similar to dysferlin-interacting protein 1 (LOC388432), mRNA
XM 371088	Homo sapiens similar to hypothetical protein DKFZp434F142 (LOC388437),
XM 371089	Homo sapiens similar to MEGF11 protein (LOC388438), mRNA
XM_371092	Homo sapiens similar to cytokine (LOC388440), mRNA
XM 371097	Homo sapiens LOC388444 (LOC388444), mRNA
XM_371098	Homo sapiens hypothetical protein LOC348262 (LOC348262), mRNA
XM_371105	Homo sapiens LOC388457 (LOC388457), mRNA
XM_371106	Homo sapiens LOC388458 (LOC388458), mRNA
XM_371107	Homo sapiens similar to 60S ribosomal protein L6 (TAX-responsive enhance
XM_371108	Homo sapiens similar to KIAA1314 protein (LOC388462), mRNA
XM_371109	Homo sapiens hypothetical protein LOC284221 (LOC284221), mRNA
XM_371110	Homo sapiens similar to acyl-malonyl condensing enzyme (LOC388463), mF
XM_371111	Homo sapiens similar to breast cancer antigen NY-BR-1.1 (LOC388469), mF
XM_371113	Homo sapiens similar to 60S RIBOSOMAL PROTEIN L21 (LOC388471), mR
XM_371114	Homo sapiens formin homology 2 domain containing 3 (FHOD3), mRNA
XM_371115	Homo sapiens similar to 60S ribosomal protein L7a (Surfeit locus protein 3) (
XM_371116	Homo sapiens myosin VB (MYO5B), mRNA
XM_371117	Homo sapiens similar to Nonhistone chromosomal protein HMG-14 (High-mc
XM_371118	Homo sapiens similar to serologically defined colon cancer antigen 3 (LOC3)
XM_371120	Homo sapiens thioredoxin-like 4 (TXNL4), mRNA
XM_371121	Homo sapiens similar to bA476I15.3 (novel protein similar to septin) (LOC38)
XM_371122	Homo sapiens similar to Dip1-associated protein C (LOC388488), mRNA
XM_371125	Homo sapiens similar to KIAA1683 protein (LOC388491), mRNA
XM_371130	Homo sapiens similar to methyl-CpG binding domain protein 3-like 2 (LOC38
XM_371132	Homo sapiens FLJ38144 protein (FLJ38144), mRNA
XM_371134	Homo sapiens similar to complement C3-Q2 (LOC388503), mRNA
XM_371138	Homo sapiens hypothetical protein LOC284390 (LOC284390), mRNA
XM_371139	Homo sapiens hypothetical protein FLJ14959 (FLJ14959), mRNA
XM_371140	Homo sapiens similar to zinc finger protein 433 (LOC388507), mRNA
XM_371141	Homo sapiens similar to ribosomal protein L17 (LOC388508), mRNA
XM_371142	Homo sapiens similar to hypothetical protein FLJ38281 (LOC388509), mRN/
XM_371143	Homo sapiens similar to Asialoglycoprotein receptor 2 (Hepatic lectin H2) (As
XM_371145	Homo sapiens similar to Cytochrome P450 4F12 (CYPIVF12) (LOC388514),
XM_371146	Homo sapiens KIAA1683 (KIAA1683), mRNA
XM_371147	Homo sapiens similar to MOST-1 protein (LOC388517), mRNA
XM_371150	Homo sapiens zinc finger protein 90 (HTF9) (ZNF90), mRNA
XM_371151	Homo sapiens similar to 40S ribosomal protein S16 (LOC388519), mRNA

XM 371152	Homo sapiens zinc finger protein 486 (ZNF486), mRNA
XM 371153	Homo sapiens similar to hypothetical protein (LOC388521), mRNA
XM_371154	Homo sapiens similar to Zinc finger protein 429 (LOC388522), mRNA
XM 371155	Homo sapiens similar to 40S ribosomal protein SA (P40) (34/67 kDa laminin
XM_371157	Homo sapiens similar to CG14939-PA (LOC388526), mRNA
XM_371158	Homo sapiens hypothetical protein LOC147991 (LOC147991), mRNA
XM_371159	Homo sapiens similar to regulator of G protein signaling 9-binding protein; R
XM 371160	Homo sapiens similar to 60S ribosomal protein L21 (LOC388532), mRNA
XM_371161	Homo sapiens similar to KIPV467 (LOC388533), mRNA
XM_371164	Homo sapiens NYD-SP11 protein (NYD-SP11), mRNA
XM_371165	Homo sapiens similar to SPRED-3 (LOC388538), mRNA
XM_371167	Homo sapiens syncollin (SYCN), mRNA
XM_371170	Homo sapiens similar to Zinc finger protein 216 (LOC388545), mRNA
XM 371174	Homo sapiens zinc finger protein 283 (ZNF283), mRNA
XM_371175	Homo sapiens zinc finger protein 229 (ZNF229), mRNA
XM_371176	Homo sapiens similar to CEACAM5 protein (LOC388550), mRNA
XM_371177	Homo sapiens similar to carcinoembryonic antigen-related cell adhesion mol-
XM_371178	Homo sapiens similar to BC043666 protein (LOC388552), mRNA
XM_371179	Homo sapiens F-box only protein 34-like (FBXO34L), mRNA
XM_371181	Homo sapiens nanos homolog 2 (Drosophila) (NANOS2), mRNA
XM_371182	Homo sapiens similar to BC282485_1 (LOC388554), mRNA
XM_371183	Homo sapiens similar to RPRC483 (LOC388555), mRNA
XM_371184	Homo sapiens KIAA1183 protein (KIAA1183), mRNA
XM_371187	Homo sapiens hypothetical gene MGC45922 (MGC45922), mRNA
XM_371190	Homo sapiens hypothetical protein LOC162967 (LOC162967), mRNA
XM_371191	Homo sapiens similar to RIKEN cDNA 1300007C21 (LOC388560), mRNA
XM_371192	Homo sapiens similar to KIAA2033 protein (LOC388561), mRNA
XM_371195	Homo sapiens hypothetical protein MGC35045 (MGC35045), mRNA
XM_371196	Homo sapiens LOC388564 (LOC388564), mRNA
XM_371197	Homo sapiens similar to zinc finger protein 111 (LOC388565), mRNA
XM_371198	Homo sapiens similar to Zinc finger protein 471 (EZFIT-related protein 1) (LC
XM_371200	Homo sapiens similar to R30217_1 (LOC388567), mRNA
XM_371201	Homo sapiens similar to Zinc finger protein 324 (Zinc finger protein ZF5128)
XM_371202	Homo sapiens CXYorf1-related protein (FLJ00038), mRNA
XM_371204	Homo sapiens similar to 60S ribosomal protein L23a (LOC388574), mRNA
XM_371205	Homo sapiens similar to hypothetical protein DKFZp434F142 (LOC388576),
XM_371206	Homo sapiens similar to F-box only protein 25 (LOC388578), mRNA
XM_371207	Homo sapiens similar to beta-tubulin 4Q (LOC388579), mRNA
XM_371208	Homo sapiens similar to RIKEN cDNA 1110035L05 (LOC388581), mRNA
XM_371210	Homo sapiens taste receptor, type 1, member 3 (TAS1R3), mRNA
XM_371214	Homo sapiens KIAA0450 gene product (KIAA0450), mRNA
XM_371215	Homo sapiens similar to hairy and enhancer of split 5 (LOC388585), mRNA
XM_371216	Homo sapiens LOC388591 (LOC388591), mRNA
XM_371221	Homo sapiens similar to WD repeat domain 9 isoform A; WD repeat domain Homo sapiens similar to Hypothetical protein MGC37938 (LOC388595), mR/
XM_371222	
XM_371223	DNA
XM_371225	
XM_371227	16 (0 16-1
XM_371230	
XM_371232	·
XM_371234	
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XM_371236	
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XM_371238	· · · · · - · - · · · · · · · · · · · ·
XM_371239 XM_371241	
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XM_371243	Homo sapiens similar to 60S ribosomal protein L21 (LOC388621), mRNA
XM_371244	Homo sapiens LOC388624 (LOC388624), mRNA
XM_371245	Homo sapiens similar to FLJ00408 protein (LOC388625), mRNA
XM_371246	Homo sapiens hypothetical protein FLJ21156 (FLJ21156), mRNA
XM_371248	Homo sapiens LOC374973 (LOC374973), mRNA
XM_371249	Homo sapiens similar to cytochrome P450 4Z1 (LOC388629), mRNA
XM_371250	Homo sapiens LOC388630 (LOC388630), mRNA
XM_371252	Homo sapiens similar to heterogeneous nuclear ribonucleoprotein A3 (LOC3
XM 371253	Homo sapiens similar to Low-density lipoprotein receptor-related protein 2 pr
XM_371254	Homo sapiens similar to Ubiquitin carboxyl-terminal hydrolase 24 (Ubiquitin t
XM_371257	Homo sapiens KIAA1799 protein (KIAA1799), mRNA
XM_371258	Homo sapiens hypothetical protein FLJ10770 (KIAA1579), mRNA
XM_371259	Homo sapiens hypothetical protein DKFZp547l048 (DKFZp547l048), mRNA
XM_371260	Homo sapiens similar to crystallin, zeta; NADPH:quinone reductase (LOC388
XM_371261	Homo sapiens similar to Triosephosphate isomerase (TIM) (LOC388642), ml
XM_371262	Homo sapiens EGF, latrophilin and seven transmembrane domain containing
XM_371263	Homo sapiens mucolipin 2 (MCOLN2), mRNA
XM_371265	Homo sapiens similar to Guanylate binding protein 4 (LOC388646), mRNA
XM_371267	Homo sapiens hypothetical protein LOC164045 (LOC164045), mRNA
XM_371268	Homo sapiens similar to 1700028K03 protein (LOC388649), mRNA
XM_371269	Homo sapiens similar to RIKEN cDNA 2900024C23 (LOC388650), mRNA
XM_371273	Homo sapiens similar to 40S ribosomal protein SA (P40) (34/67 kDa laminin
XM_371276	Homo sapiens similar to hypothetical protein MGC8902 (LOC388658), mRN/
XM_371277	Homo sapiens similar to RIKEN cDNA C230093N12 (LOC388659), mRNA
XM_371278	Homo sapiens similar to mitsugumin29 (LOC388660), mRNA
XM_371279	Homo sapiens amphoterin-induced gene (KIAA1163), mRNA
XM_371280	Homo sapiens similar to Orphan sodium- and chloride-dependent neurotrans
XM_371281	Homo sapiens similar to DKFZP564K247 protein (LOC388665), mRNA
XM_371283	Homo sapiens LOC388666 (LOC388666), mRNA
XM_371284	Homo sapiens T-box 15 (TBX15), mRNA
XM_371285	Homo sapiens 3-beta-hydroxysteroid dehydrogenase, tissue-type heart (LOC
XM_371286	Homo sapiens hypothetical protein MGC45731 (MGC45731), mRNA
XM_371288	Homo sapiens similar to cyclophilin-LC; cyclophilin homolog overexpressed i
XM_371291	Homo sapiens similar to hypothetical protein FLJ21308 (LOC388673), mRN/
XM_371292	Homo sapiens LOC388674 (LOC388674), mRNA
XM_371299	Homo sapiens similar to KIAA0454 protein (LOC388681), mRNA
XM_371301	Homo sapiens similar to hypothetical protein FLJ21308 (LOC388685), mRN/
XM_371302	Homo sapiens similar to cyclophilin-LC; cyclophilin homolog overexpressed i
XM_371304	Homo sapiens similar to cyclophilin-LC; cyclophilin homolog overexpressed i
XM_371305	Homo sapiens similar to hypothetical protein KIAA0454 - human (fragment) (
XM_371306	Homo sapiens similar to KIAA0454 protein (LOC388689), mRNA
XM_371310	Homo sapiens similar to hypothetical protein SB145 (LOC388695), mRNA
XM_371311	Homo sapiens hypothetical protein FLJ36032 (FLJ36032), mRNA
XM_371312	Homo sapiens hypothetical protein FLJ39117 (FLJ39117), mRNA
XM_371313	Homo sapiens similar to dJ14N1.2 (novel S-100/ICaBP type calcium binding
XM_371314	Homo sapiens similar to skin-specific protein (LOC388699), mRNA
XM_371315	Homo sapiens LOC388701 (LOC388701), mRNA
XM_371316	Homo sapiens similar to 40S ribosomal protein SA (P40) (34/67 kDa laminin
XM_371320	Homo sapiens FLJ00193 protein (FLJ00193), mRNA
XM_371326	Homo sapiens similar to Putative dimethylaniline monooxygenase [N-oxide for
XM_371328	Homo sapiens hypothetical gene supported by BC007071 (dJ383J4.3), mRN Homo sapiens similar to Protein translation factor SUI1 homolog (Sui1iso1) (
XM_371329	
XM_371330	Homo sapiens similar to bA92K2.2 (similar to ubiquitin) (LOC388720), mRN/- Homo sapiens similar to Hypothetical protein CBG13135 (LOC388722), mRN/-
XM_371331	Homo sapiens similar to Hypothetical protein CBG13135 (LOC300722), HIRN Homo sapiens kinesin family member 21B (KIF21B), mRNA
XM_371332	Homo sapiens similar to hypothetical protein FLJ37794 (LOC388724), mRN/
XM_371333	Homo sapiens similar to mypothetical protein (LOC388725), mRNA
XM_371334	Homo sapiens similar to mixing the protein (E00000120), mixing

XM_371335	Homo sapiens similar to osteotesticular protein tyrosine phosphatase (LOC3:
XM_371336	Homo sapiens similar to alpha tubulin (LOC388728), mRNA
XM 371338	Homo sapiens hypothetical protein LOC93273 (LOC93273), mRNA
XM_371339	Homo sapiens similar to 40S ribosomal protein S25 (LOC388733), mRNA
XM_371340	Homo sapiens similar to Px19-like protein (25 kDa protein of relevant evolution
XM_371343	Homo sapiens similar to KIAA0663 protein (LOC388739), mRNA
XM_371344	Homo sapiens similar to calpain 8 (LOC388743), mRNA
XM_371346	Homo sapiens hypothetical protein LOC347813 (LOC347813), mRNA
XM_371350	Homo sapiens similar to RIKEN cDNA 1810063B05 (LOC388753), mRNA
XM_371351	Homo sapiens similar to 60S ribosomal protein L35 (LOC388754), mRNA
XM 371352	Homo sapiens formin 2 (FMN2), mRNA
XM_371353	Homo sapiens LOC388756 (LOC388756), mRNA
XM 371354	Homo sapiens hypothetical protein FLJ10157 (FLJ10157), mRNA
XM_371355	Homo sapiens LOC388759 (LOC388759), mRNA
XM_371356	Homo sapiens similar to olfactory receptor GA_x6K02T2NHDJ-9721756-972
XM_371357	Homo sapiens similar to Olfactory receptor 2M6 (LOC388762), mRNA
XM_371358	Homo sapiens olfactory receptor, family 2, subfamily M, member 4 (OR2M4),
XM_371359	Homo sapiens similar to Ankrd3-prov protein (LOC388763), mRNA
XM_371369	Homo sapiens C219-reactive peptide (FLJ39207), mRNA
XM_371374	Homo sapiens similar to hypothetical protein (LOC388774), mRNA
XM_371380	Homo sapiens S100 calcium binding protein A13 (S100A13), mRNA
XM_371384	Homo sapiens similar to AG02 (LOC388776), mRNA
XM_371385	Homo sapiens similar to hypothetical protein DJ328E19.C1.1 (LOC388777),
XM 371388	Homo sapiens DKFZp434D177-like (DKFZp434D177-like), mRNA
XM 371390	Homo sapiens similar to hypothetical protein (LOC388783), mRNA
XM_371391	Homo sapiens similar to dJ680N4.2 (ubiquitin-conjugating enzyme E2D 3 (hc
XM_371395	Homo sapiens similar to dJ1093G12.6 (A novel protein) (LOC388794), mRN/
XM 371397	Homo sapiens similar to hypothetical protein FLJ33620 (LOC388795), mRN/
XM_371398	Homo sapiens myosin, heavy polypeptide 7B, cardiac muscle, beta (MYH7B)
XM_371399	Homo sapiens chromosome 20 open reading frame 142 (C20orf142), mRNA
XM_371401	Homo sapiens chromosome 20 open reading frame 106 (C20orf106), mRNA
XM 371402	Homo sapiens similar to dJ1153D9.4 (novel protein) (LOC388799), mRNA
XM_371403	Homo sapiens LOC388802 (LOC388802), mRNA
XM_371405	Homo sapiens similar to bA476l15.3 (novel protein similar to septin) (LOC38)
XM 371407	Homo sapiens similar to Ankyrin repeat domain protein 18A (LOC388812), m
XM 371409	Homo sapiens similar to peptidylprolyl isomerase A (cyclophilin A) (LOC3888
XM 371411	Homo sapiens similar to GNGT1 protein (LOC388819), mRNA
XM_371413	Homo sapiens similar to Protein CGI-27 (C21orf19-like protein) (LOC388822
XM 371416	Homo sapiens similar to C21orf258 (LOC388828), mRNA
XM 371417	Homo sapiens KIAA0179 (KIAA0179), mRNA
XM_371418	Homo sapiens similar to PRED59 (LOC388830), mRNA
XM 371421	Homo sapiens similar to hypothetical protein (LOC388840), mRNA
XM_371423	Homo sapiens similar to hypothetical protein DKFZp434P211.1 - human (fraç
XM_371424	Homo sapiens similar to breakpoint cluster region isoform 1 (LOC388847), m
XM_371429	Homo sapiens similar to hypothetical protein (LOC388852), mRNA
XM_37143 O	Homo sapiens similar to sushi domain containing 2; Sushi domain (SCR repe
XM_371431	Homo sapiens similar to Gamma-glutamyltranspeptidase 1 precursor (Gamm
XM_371436	Homo sapiens similar to E2F transcription factor 6 isoform a (LOC388861), n
XM_371437	Homo sapiens similar to dJ831C21.3 (novel protein similar to DKFZP434P21
XM_37145 5	Homo sapiens LOC388882 (LOC388882), mRNA
XM_371459	Homo sapiens hypothetical protein MGC1842 (MGC1842), mRNA
XM_37146O	Homo sapiens LOC388886 (LOC388886), mRNA
XM_371461	Homo sapiens KIAA1671 protein (KIAA1671), mRNA
XM_371463	Homo sapiens similar to hypothetical protein 4930562D19 (LOC388891), mF
XM_371466	Homo sapiens LOC388900 (LOC388900), mRNA
XM_371468	Homo sapiens hypothetical protein MGC40042 (MGC40042), mRNA
XM_371469	Homo sapiens LOC388906 (LOC388906), mRNA

XM 371470	Homo sapiens similar to ribosomal protein L5; 60S ribosomal protein L5 (LO
XM_371471	Homo sapiens chromosome 22 open reading frame 1 (C22orf1), mRNA
XM_371474	Homo sapiens plexin B2 (PLXNB2), mRNA
XM_371476	Homo sapiens similar to Doublecortin domain-containing protein 2 (RU2S pro
XM_371477	Homo sapiens similar to RIKEN cDNA 5830483C08 gene (LOC388926), mR
XM 371478	Homo sapiens LOC388927 (LOC388927), mRNA
XM 371479	Homo sapiens LOC388928 (LOC388928), mRNA
XM 371480	Homo sapiens similar to tudor domain containing 6 protein (LOC388929), mF
XM_371481	Homo sapiens LOC388931 (LOC388931), mRNA
XM_371484	Homo sapiens selenoprotein I, 1 (KIAA1724), mRNA
XM_371485	Homo sapiens similar to RIKEN cDNA 1700001C02 (LOC388936), mRNA
XM_371486	Homo sapiens similar to phospholipase B (LOC388937), mRNA
XM_371487	Homo sapiens phospholipase B1 (PLB1), mRNA
XM_371488	Homo sapiens similar to CDNA sequence BC027072 (LOC388939), mRNA
XM_371489	Homo sapiens similar to hypothetical protein (L1H 3 region) - human (LOC38
XM_371490	Homo sapiens similar to cysteine and histidine-rich domain (CHORD)-contain
XM_371491	Homo sapiens LOC388946 (LOC388946), mRNA
XM_371492	Homo sapiens similar to signal-transducing adaptor protein-2; brk kinase sub
XM_371493	Homo sapiens similar to hypothetical protein (LOC388950), mRNA
XM_371494	Homo sapiens similar to Testis-specific Y-encoded-like protein 1 (TSPY-like
XM_3 7 1495	Homo sapiens similar to 40S ribosomal protein SA (P40) (34/67 kDa laminin
XM_371496	Homo sapiens similar to Px19-like protein (25 kDa protein of relevant evolution of the protein of relevant evolution of the protein (25 kDa protein of relevant evolution of the protein (25 kDa protein of relevant evolution of the protein of the p
XM_3 7 1497	Homo sapiens similar to expressed sequence C79663 (LOC388957), mRNA
XM_371500	Homo sapiens similar to hypothetical protein 4921507A12 (LOC388960), mR
XM_371501	Homo sapiens hypothetical protein MGC22014 (MGC22014), mRNA Homo sapiens similar to RIKEN cDNA 1810056O20 (LOC388962), mRNA
XM_371502	Homo sapiens similar to Riken cond 1610050020 (E0036962), mixta Homo sapiens similar to Retinol dehydrogenase 12 (L0C388963), mRNA
XM_371503	Homo sapiens similar to Retinoi denydrogenase 12 (Locatosado), micros. Homo sapiens similar to hepatitis C virus core-binding protein 6; cervical can
XM_371504	Homo sapiens similar to hepatitis C virus core-binding protein (, carvical dan Homo sapiens similar to Phosphatidylethanolamine-binding protein (PEBP) (
XM_371505	Homo sapiens LOC388969 (LOC388969), mRNA
XM_371506	Homo sapiens similar to anaphase promoting complex subunit 1; anaphase-
XM_371511 XM_371513	Homo sapiens similar to RAN-binding protein 2-like 1 isoform 1; sperm mem
XM_371514	Homo sapiens similar to WW domain binding protein 1 (LOC388975), mRNA
XM_371515	Homo sapiens similar to protein that is immuno-reactive with anti-PTH polycle
XM_371517	Homo sapiens similar to immunoglobulin kappa light chain VC region (LOC3)
XM_371534	Homo sapiens similar to hypothetical protein (LOC389000), mRNA
XM 371535	Homo sapiens similar to hypothetical protein DKFZp434A171 (LOC389002),
XM_371536	Homo sapiens similar to tripartite motif-containing 43 (LOC389004), mRNA
XM_371537	Homo sapiens similar to RING finger protein 18 (Testis-specific ring-finger pr
XM 371539	Homo sapiens similar to hypothetical protein (LOC389007), mRNA
XM_371540	Homo sapiens ankyrin-related (UNQ2430), mRNA
XM 371542	Homo sapiens RW1 protein (RW1), mRNA
XM_371543	Homo sapiens LOC389012 (LOC389012), mRNA
XM_371544	Homo sapiens similar to Sodium/hydrogen exchanger 4 (Na(+)/H(+) exchang
XM_371546	Homo sapiens similar to Elongation factor 1-alpha 1 (EF-1-alpha-1) (Elongati
XM_371547	Homo sapiens similar to Elongation factor 1-alpha 1 (EF-1-alpha-1) (Elongati
XM_371552	Homo sapiens similar to RAN-binding protein 2-like 1 isoform 1; sperm meml
XM_371555	Homo sapiens similar to myosin-VIIb (LOC389031), mRNA
XM_371558	D0040000 (L0000000) mcDNA
XM_371561	
XM_371564	
XM_371567	and the second s
XM_371568	
XM_371569	
XM_371571	
XM_371572	
XM_371573	Homo sapiens neurexophilin 2 (NXPH2), mRNA

XM_371575	Homo sapiens formin binding protein 3 (FNBP3), mRNA
XM_371576	Homo sapiens KIAA1189 protein (KIAA1189), mRNA
XM 371577	Homo sapiens similar to RNA polymerase B transcription factor 3 (MGC2390
XM_371581	Homo sapiens similar to zinc finger protein Sp5 (LOC389058), mRNA
XM_371583	Homo sapiens LOC389064 (LOC389064), mRNA
XM_371584	Homo sapiens similar to RIKEN cDNA B830010L13 gene (LOC389065), mR
XM_371585	Homo sapiens LOC389066 (LOC389066), mRNA
XM 371586	Homo sapiens hypothetical protein FLJ25415 (FLJ25415), mRNA
XM_371588	Homo sapiens similar to Selenide, water dikinase 1 (Selenophosphate synthe
XM_371590	Homo sapiens KIAA1571 protein (KIAA1571), mRNA
XM_371591	Homo sapiens similar to RIKEN cDNA 9430067K14 gene; Ras GTPase-activ
XM_371592	Homo sapiens similar to RIKEN cDNA D630023F18 (LOC389073), mRNA
XM_371593	Homo sapiens similar to REGULATED ENDOCRINE SPECIFIC PROTEIN 18
XM_371594	Homo sapiens similar to CAVP-target protein (CAVPT) (LOC389076), mRNA
XM_371595	Homo sapiens dedicator of cytokinesis 10 (DOCK10), mRNA
XM_371600	Homo sapiens similar to enterokinase (LOC389083), mRNA
_	Homo sapiens similar to enterokinase (25000000), mittal to enterokinase (25000000), mittal to enterokinase (25000000), mittal to enterokinase (250000000), mittal to enterokinase (2500000000), mittal to enterokinase (2500000000000), mittal to enterokinase (2500000000000000), mittal to enterokinase (25000000000000000000), mittal to enterokinase (25000000000000000000000000000000000000
XM_371603	Homo sapiens hypothetical protein FLJ37034 (FLJ37034), mRNA
XM_371604	Homo sapiens hypothetical protein LOC151174 (LOC151174), mRNA
XM_371605	Homo sapiens similar to seven transmembrane helix receptor (LOC389090),
XM_371606	Homo sapiens hypothetical protein FLJ10707 (FLJ10707), mRNA
XM_371614	
XM_371617	Homo sapiens TBP-interacting protein (TIP120B), mRNA
XM_371618	Homo sapiens similar to nucleoporin 210; nuclear pore membrane glycoprote
XM_371619	Homo sapiens FYVE, RhoGEF and PH domain containing 5 (FGD5), mRNA
XM_371621	Homo sapiens similar to RIKEN cDNA B830010L13 gene (LOC389099), mRI
XM_371622	Homo sapiens similar to 60S ribosomal protein L23a (LOC389101), mRNA
XM_371623	Homo sapiens similar to YPLR6490 (LOC389102), mRNA
XM_371625	Homo sapiens LOC389106 (LOC389106), mRNA
XM_371626	Homo sapiens similar to Hsp70/Hsp90 organizing protein homolog CG2720-l
XM_371629	Homo sapiens similar to RIKEN cDNA 1110038F21 (LOC389111), mRNA
XM_371630	Homo sapiens similar to ribosomal protein S27 (LOC389112), mRNA
XM_371631	Homo sapiens similar to hypothetical protein FLJ35863 (LOC389114), mRN/
XM_371632	Homo sapiens FLJ36157 protein (FLJ36157), mRNA
XM_371638	Homo sapiens similar to mouse fat 1 cadherin (LOC389117), mRNA
XM_371639	Homo sapiens similar to VLLR9392 (LOC389118), mRNA
XM_371641	Homo sapiens similar to RIKEN cDNA 4921517D21 (LOC389120), mRNA
XM_371643	Homo sapiens similar to hypothetical protein MGC39725 (LOC389124), mRN
XM_371645	Homo sapiens similar to 40S ribosomal protein S10 (LOC389127), mRNA
XM_371647	Homo sapiens similar to CG9996-PA (LOC389129), mRNA
XM_371649	Homo sapiens similar to hypothetical protein SB153 isoform 1 (LOC389130),
XM_371653	Homo sapiens similar to hypothetical protein FLJ11292 (LOC389135), mRN/
XM_371655	Homo sapiens similar to SVH-B (LOC389137), mRNA
XM_371656	Homo sapiens similar to olfactory receptor GA_x54KRFPKG5P-55348161-55
XM_371658	Homo sapiens similar to laminin receptor 1 (ribosomal protein SA); P40-3, fur
XM_371660	Homo sapiens similar to seven transmembrane helix receptor (LOC389144),
XM_371662	Homo sapiens hypothetical protein LOC255330 (LOC255330), mRNA
XM_371663	Homo sapiens similar to WD repeat domain 10 isoform 3 (LOC389147), mRI
XM 371664	· · · · · · · · · · · · · · · · · · ·
XM 371665	
XM_371666	· · · · · · · · · · · · · · · · · · ·
XM 371668	
XM_371670	
XM_371671	Homo sapiens similar to Chromosome 1 open reading frame 37 (LOC389164
XM_371672	
XM_371674	D11
XM_371677	
XM_371678	
VIAI 21 1010	Homo dapieno Lococo II + (Lococo II +), militar

XM_371679	Homo sapiens similar to ribosomal protein L22 (LOC389175), mRNA
XM_371680	Homo sapiens LOC389177 (LOC389177), mRNA
XM_371681	1
XM_371682	Homo sapiens similar to 5-hydroxytryptamine receptor 3 subunit C (LOC389
XM_371683	Homo sapiens LOC389187 (LOC389187), mRNA
XM_371684	
XM_371687	Homo sapiens LOC389197 (LOC389197), mRNA
XM_371690	
XM_371691	Homo sapiens LOC389203 (LOC389203), mRNA
XM_371692	The same of the same state of the same of
XM_371693	
XM_371694	
XM_371695	(
XM_371697	
XM_371698	Homo sapiens similar to KIAA1680 protein (LOC401145), mRNA
XM_371701	Homo sapiens similar to template acyivating factor-I alpha (LOC389217), mF
XM_371702	Homo sapiens similar to Ribosomal protein L7A CG3314-PD (LOC389218),
XM_371705	Homo sapiens LOC389221 (LOC389221), mRNA
XM_371706	Homo sapiens hypothetical protein KIAA1109 (KIAA1109), mRNA
XM_371709 XM_371710	Homo sapiens ring finger protein 150 (RNF150), mRNA
XM_371710	Homo sapiens LOC389227 (LOC389227), mRNA
XM_371714	Homo sapiens similar to GRIK2 protein (LOC389228), mRNA Homo sapiens similar to ring finger protein 129 (LOC389239), mRNA
XM_371715	Homo sapiens similar to alpha NAC/1.9.2. protein (LOC389240), mRNA
XM_371717	Homo sapiens odd Oz/Ten-m homolog 3 (ODZ3), mRNA
XM_371718	Homo sapiens similar to vesicle-associated soluble NSF attachment protein
XM_371719	Homo sapiens similar to RSTI689 (LOC389255), mRNA
XM_371722	Homo sapiens similar to Leucine-rich repeat-containing protein 14 (LOC3892
XM_371725	Homo sapiens similar to hypothetical protein (LOC389261), mRNA
XM_371726	Homo sapiens similar to antifreeze glycoprotein precursor - black rockcod (Lt
XM_371728	Homo sapiens similar to CDNA sequence BC012016 (LOC389276), mRNA
XM_371729	Homo sapiens similar to RPE-spondin (LOC389279), mRNA
XM_371731	Homo sapiens similar to bA110H4.2 (similar to membrane protein) (LOC3892
XM_371732	Homo sapiens similar to RIKEN cDNA C230086A09 gene (LOC389282), mR
XM_371733	Homo sapiens hypothetical protein FLJ23577 (FLJ23577), mRNA
XM_371736 XM_371738	Homo sapiens similar to FKSG62 (LOC389286), mRNA
XM_371740	Homo sapiens similar to annexin II receptor (LOC389289), mRNA
XM_371740	Homo sapiens hypothetical protein FLJ23563 (FLJ23563), mRNA
XM_371743	Homo sapiens similar to hypothetical protein (LOC389293), mRNA
XM_371749	Homo sapiens similar to bA110H4.2 (similar to membrane protein) (LOC3892 Homo sapiens similar to bA110H4.2 (similar to membrane protein) (LOC3892
XM_371754	Homo sapiens similar to nonhistone chromosomal protein HMG-17 - rat (LOC
XM_371755	Homo sapiens similar to Rho-guanine nucleotide exchange factor (Rho-intera
XM_371757	Homo sapiens similar to 60S ribosomal protein L7 (LOC389305), mRNA
XM_371758	Homo sapiens similar to ribosomal protein L10a (LOC389308), mRNA
XM_371759	Homo sapiens hypothetical protein FLJ11292 (FLJ11292), mRNA
XM_371760	Homo sapiens hypothetical protein LOC116068 (LOC116068), mRNA
XM_371761	Homo sapiens KIAA0825 protein (KIAA0825), mRNA
XM_371762	Homo sapiens similar to Proteasome activator complex subunit 2 (Proteason
XM_371763	Homo sapiens LOC389313 (LOC389313), mRNA
XM_371764	Homo sapiens similar to NADH dehydrogenase subunit 5 (LOC389314), mRI
XM_371765	Homo sapiens LOC389315 (LOC389315), mRNA
XM_371768 XM_371769	Homo sapiens LOC389320 (LOC389320), mRNA
XM_371769 XM_371770	Homo sapiens LOC389321 (LOC389321), mRNA
XM_371770 XM_371771	Homo saplens similar to heterogeneous nuclear ribonucleoprotein K (LOC38
XM_371771	Homo sapiens similar to hypothetical protein (LOC389323), mRNA Homo sapiens LOC389326 (LOC389326), mRNA
7.III_0/1/1/2	HINNA

XM_371776	Homo sapiens similar to hypothetical protein 4933429F08 (LOC389337), mR
XM_371777	Homo sapiens hypothetical protein LOC348938 (LOC348938), mRNA
XM_371778	Homo sapiens similar to RIKEN cDNA 4921536K21 (LOC389341), mRNA
XM 371781	Homo sapiens similar to 60S ribosomal protein L10 (QM protein homolog) (L
XM_371782	Homo sapiens similar to hypothetical protein (LOC389346), mRNA
XM_371783	Homo sapiens similar to NY-REN-7 antigen (LOC389347), mRNA
XM_371790	Homo sapiens similar to 6-pyruvoyl-tetrahydropterin synthase (LOC389351),
XM_371791	Homo sapiens similar to High mobility group protein 4 (HMG-4) (High mobility
_	Homo sapiens similar to bA476I15.3 (novel protein similar to septin) (LOC38)
XM_371793 XM_371796	Homo sapiens similar to Protein phosphatase 1, regulatory subunit 3D (Prote
_	Homo sapiens LOC389365 (LOC389365), mRNA
XM_371797	Homo sapiens similar to C6orf52 protein (LOC389366), mRNA
XM_371798	Homo sapiens similar to coonse protein (Locassaso), mixiva
XM_371801	Homo sapiens O-acyltransferase (membrane bound) domain containing 1 (O
XM_371809	Homo sapiens chromosome 6 open reading frame 205 (C6orf205), mRNA
XM_371812	Homo sapiens major histocompatibility complex, class II, DQ alpha 1 (HLA-D
XM_371813	Homo sapiens kinesin family member C1 (KIFC1), mRNA
XM_371814	Homo sapiens similar to Rps15a protein (LOC389382), mRNA
XM_371815	Homo sapiens similar to AAAL3045 (LOC389383), mRNA
XM_371816	Homo sapiens similar to RIKEN cDNA 4930539E08 (LOC389384), mRNA
XM_371817	Homo sapiens similar to Cytosol aminopeptidase (Leucine aminopeptidase)
XM_371818	Homo sapiens similar to Cytosol aminopeptidase (Leucine aminopeptidase)
XM_371819	Homo sapiens similar to 60S ribosomal protein L12 (LOC389387), mRNA
XM_371820	Homo sapiens similar to hypothetical protein BC006605 (LOC389389), mRN.
XM_371822	Homo sapiens chromosome 6 open reading frame 110 (C6orf110), mRNA
XM_371823	Homo sapiens similar to hypothetical protein DKFZp434D2328 (LOC389394)
XM_371824	Homo sapiens similar to heterogeneous nuclear ribonucleoprotein A3 (LOC3
XM_371825	Homo sapiens similar to BXMAS2-10 protein (LOC389396), mRNA
XM 371826	Homo sapiens similar to IVFI9356 (LOC389400), mRNA
XM_371829	Homo sapiens similar to ENSANGP00000009924 (LOC389405), mRNA
XM 371832	Homo sapiens KIAA1411 (KIAA1411), mRNA
XM_371835	Homo sapiens inhibitor of Bruton agammaglobulinemia tyrosine kinase (IBTk
XM 371837	Homo sapiens similar to oxidoreductase UCPA (LOC389416), mRNA
XM 371838	Homo sapiens ubiquitin specific protease 45 (USP45), mRNA
XM_371841	Homo sapiens similar to hypothetical protein (L1H 3 region) - human (LOC38
XM 371842	Homo sapiens LOC389421 (LOC389421), mRNA
XM_371843	Homo sapiens similar to ribosomal protein S27a (LOC389425), mRNA
XM 371844	Homo sapiens TSPY-like (TSPYL), mRNA
XM_371845	Homo sapiens similar to MGC32805 protein (LOC389427), mRNA
XM_371846	Homo sapiens similar to ribosomal protein L5; 60S ribosomal protein L5 (LO
XM_371847	Homo sapiens similar to RIKEN cDNA 2310057J18 (LOC389429), mRNA
XM_371848	Homo sapiens chromosome 6 open reading frame 115 (C6orf115), mRNA
XM_371849	Homo sapiens chromosome 6 open reading frame 198 (C6orf198), mRNA
	Homo sapiens similar to hypothetical protein 9130014G24 (LOC389431), mF
XM_371850	Homo sapiens similar to RIKEN cDNA E130306M17 gene (LOC389432), mR
XM_371851	Homo sapiens similar to RINEN CDNA E130300M17 gene (200309432), IIIN Homo sapiens similar to 60S ribosomal protein L27a (LOC389435), mRNA
XM_371853	Homo sapiens similar to 603 hosoinal protein L27a (L00303400), mitted
XM_371856	Homo sapiens similar to frazzled CG8581-PA (LOC389444), mRNA
XM_371857	Homo sapiens similar to 60S ribosomal protein L21 (LOC389445), mRNA
XM_371858	Homo sapiens similar to apolipoprotein(a) (EC 3.4.21) - rhesus macaque (fi
XM_371863	Homo sapiens family with sequence similarity 20, member C (FAM20C), mRI
XM_371873	Homo sapiens similar to zinc finger protein 316; kruppel-related zinc finger protein (1.00300400) PNA
XM_371874	Homo sapiens similar to Matn2-prov protein (LOC389462), mRNA
XM_371877	Homo sapiens KIAA0960 protein (KIAA0960), mRNA
XM_371878	
XM_371879	
XM_371884	
XM_371885	Homo sapiens similar to Neuronal protein 3.1 (p311 protein) (LOC389473), n
XM_371889	Homo sapiens similar to RP9 protein (LOC389477), mRNA

XM_371891	Homo sapiens KIAA0877 protein (KIAA0877), mRNA
XM_371897	Homo sapiens hypothetical protein DKFZp761l2123 (DKFZp761l2123), mRN
XM_371901	Homo sapiens similar to PRO0758 (LOC389490), mRNA
XM_371904	Homo sapiens similar to Protein p8 (Candidate of metastasis 1) (LOC389493
XM_371917	Homo sapiens similar to Williams Beuren syndrome chromosome region 19
XM_371923	Homo sapiens similar to opposite strand transcription unit to Stag3; Gats pro
XM_371925	Homo sapiens similar to transcription factor GTF2IRD2 (LOC389524), mRNA
XM_371930	Homo sapiens similar to PMS4 homolog mismatch repair protein - human (LC
XM_371933	Homo sapiens protein phosphatase 1, regulatory (inhibitor) subunit 9A (PPP
XM_371936	Homo sapiens similar to hypothetical protein MGC56855 (LOC389538), mRN
XM_371939	Homo sapiens similar to CG14977-PA (LOC389541), mRNA
XM_371943	Homo sapiens similar to Williams-Beuren syndrome critical region protein 19
XM_371948	Homo sapiens similar to zinc finger protein 312; forebrain embryonic zinc fing
XM_371949	Homo sapiens similar to cardiac leiomodin (LOC389550), mRNA
XM_371953	Homo sapi ens KIAA1466 protein (KIAA1466), mRNA
XM_371954	Homo sapi ens nucleoporin 205kDa (NUP205), mRNA
XM_371956	Homo sapiens KIAA1549 protein (KIAA1549), mRNA
XM_371960	Homo sapiens KIAA1277 (KIAA1277), mRNA
XM_371995	Homo sapiens similar to hypothetical protein MGC41943 (LOC389592), mRN
XM_372002	Homo sapiens similar to amyotrophic lateral sclerosis 2 (juvenile) chromoson
XM_372004	Homo sapiens LOC389602 (LOC389602), mRNA
XM_372005	Homo sapiens LOC389603 (LOC389603), mRNA
XM_372006	Homo sapiens similar to vasoactive intestinal peptide receptor 2 (LOC389604
XM_372009	Homo sapiens similar to bA476115.3 (novel protein similar to septin) (LOC38)
XM_372010	Homo sapiens LOC389607 (LOC389607), mRNA
XM_372011	Homo sapiens similar to HARL2754 (LOC389610), mRNA
XM_372013	Homo sapiens similar to FLJ10408 protein (LOC389611), mRNA
XM_372017	Homo sapiens similar to seven transmembrane helix receptor (LOC389616),
XM_372018	Homo sapiens similar to hypothetical protein FLJ10408 (LOC389617), mRN/
XM_372019	Homo sapiens similar to FLJ10408 protein (LOC389618), mRNA
XM_372024	Homo sapiens LOC389622 (LOC389622), mRNA
XM_372025	Homo sapiens similar to Activated RNA polymerase II transcriptional coactive
XM_372026	Homo sapiens similar to seven transmembrane helix receptor (LOC389626),
XM_372027	Homo sapiens LOC389627 (LOC389627), mRNA
XM_372028	Homo sapiens similar to FLJ10408 protein (LOC389630), mRNA
XM_372030	Homo sapiens similar to FLJ10408 protein (LOC389633), mRNA
XM_372031	Homo sapiens mitochondrial tumor suppressor gene 1 (MTSG1), mRNA
XM_372035	Homo sapiens LOC389643 (LOC389643), mRNA
XM_372036	Homo sapiens similar to 60S ribosomal protein L5 (LOC389644), mRNA
XM_372037	Homo sapiens LOC389649 (LOC389649), mRNA
XM_372038	Homo sapiens hypothetical protein FLJ32731 (FLJ32731), mRNA
XM_372039	Homo sapiens similar to hypothetical protein (L1H 3 region) - human (LOC38
XM_372040	Homo sapiens similar to asparagine synthetase; glutamine-dependent aspar
XM_372041	Homo sapiens similar to RPLK9433 (LOC389658), mRNA
XM_372042	Homo sapiens similar to polycystin 1-like 3 (LOC389660), mRNA
XM_372045	Homo sapiens similar to hypothetical protein (LOC389663), mRNA
XM_372046	Homo sapiens similar to tropomyosin 4 (LOC389667), mRNA
XM_372047	Homo sapiens similar to hypothetical protein FLJ10307 (LOC389668), mRN/
XM_372048	Homo sapiens similar to 40S ribosomal protein SA (P40) (34/67 kDa laminin
XM_372050	Homo sapiens similar to Heterogeneous nuclear ribonucleoprotein A1 (Helix-
XM_372054	Homo sapiens LOC389678 (LOC389678), mRNA
XM_372055	Homo sapiens similar to hypothetical protein (LOC389679), mRNA
XM_372058	Homo sapiens Pvt1 oncogene homolog, MYC activator (mouse) (PVT1), mRI
XM_372060	Homo sapiens similar to FLJ46354 protein (LOC389690), mRNA
XM_372062	Homo sapiens similar to FLJ46354 protein (LOC389694), mRNA
XM_372063	Homo sapiens similar to epiplakin (LOC389697), mRNA
XM_372069	Homo sapiens similar to prot GOR (LOC389699), mRNA

XM_372074	Homo sapiens similar to Selenoprotein T (LOC389704), mRNA
XM_372075	Homo sapiens similar to RIKEN cDNA 3110001D03 gene (M. musculus) (MC
XM 372076	Homo sapiens similar to 2700029M09Rik protein (LOC389705), mRNA
XM_372077	Homo sapiens LOC389708 (LOC389708), mRNA
XM_372078	Homo sapiens similar to hypothetical protein (L1H 3 region) - human (LOC38
XM 372083	Homo sapiens KIAA1161 (KIAA1161), mRNA
XM_372086	Homo sapiens similar to RAB1B, member RAS oncogene family; small GTP-
XM 372088	Homo saplens similar to cell recognition molecule CASPR3 isoform 1 (LOC3
XM_372089	Homo sapiens similar to chromosome 9 open reading frame 36 (LOC389723
XM_372090	Homo sapiens similar to cell recognition molecule CASPR3 isoform 1 (LOC3
XM 372092	Homo sapiens similar to FK506-binding protein 4 (Peptidyl-prolyl cis-trans isc
XM 372094	Homo sapiens similar to chromosome 9 open reading frame 36 (LOC389730
XM_372097	Homo sapiens similar to cell recognition molecule CASPR3 isoform 1 (LOC3
XM_372099	Homo sapiens similar to bA251O17.4 (similar to methylenetetrahydrofolate d
XM_372100	Homo sapiens LOC389739 (LOC389739), mRNA
XM_372102	Homo sapiens LOC389742 (LOC389742), mRNA
XM_372103	Homo sapiens LOC389744 (LOC389744), mRNA
XM 372104	Homo sapiens similar to breast cancer antigen NY-BR-1 (LOC389745), mRN
XM_372108	Homo sapiens similar to Ribosome biogenesis protein BMS1 homolog (LOC:
XM_372109	Homo sapiens similar to mitochondrial C1-tetrahydrofolate synthase (LOC38)
XM_372110	Homo sapiens aquaporin 7-like (LOC375719), mRNA
XM_372111	Homo sapiens similar to mitochondrial C1-tetrahydrofolate synthase (LOC38)
XM_372112	Homo sapiens similar to phosphoglucomutase 5 (LOC389753), mRNA
XM_372114	Homo sapiens similar to mitochondrial C1-tetrahydrofolate synthase (LOC38)
XM 372116	Homo sapiens similar to COBW domain containing protein 3 (LOC389760), r
XM_372117	Homo sapiens similar to CG3073-PA (LOC375743), mRNA
XM 372118	Homo sapiens similar to RIKEN cDNA 1700013B16 (LOC389761), mRNA
XM_372119	Homo sapiens LOC389762 (LOC389762), mRNA
XM_372120	Homo sapiens similar to RIKEN cDNA 1700013B16 (LOC389763), mRNA
XM_372121	Homo sapiens similar to kinesin family member 27 (LOC389764), mRNA
XM_372122	Homo sapiens similar to kinesin family member 27 (LOC389765), mRNA
XM_372123	Homo sapiens similar to RIKEN cDNA 4921517D22 (LOC389766), mRNA
XM_372124	Homo sapiens zinc finger, CCHC domain containing 6 (ZCCHC6), mRNA
XM_372125	Homo sapiens similar to potassium channel tetramerisation domain containir
XM_372128	Homo sapiens similar to Osteotesticular phosphatase; protein tyrosine phosp
XM_372132	Homo sapiens similar to RIKEN cDNA 2810453I06 (LOC389776), mRNA
XM_372133	Homo sapiens KIAA1529 (KIAA1529), mRNA
XM_372137	Homo sapiens similar to RIKEN cDNA 4732481H14 (LOC389785), mRNA
XM_372138	Homo sapiens LOC389786 (LOC389786), mRNA
XM_372140	Homo sapiens LOC389789 (LOC389789), mRNA
XM_372141	Homo sapiens similar to phosphatidylinositol phosphate kinase-like protein (I
XM_372142	Homo sapiens LOC389791 (LOC389791), mRNA
XM_372143	Homo sapiens hypothetical protein LOC375757 (LOC375757), mRNA
XM_372148	Homo sapiens similar to CDNA sequence BC034076 (LOC389796), mRNA
XM_372150	Homo sapiens LOC389799 (LOC389799), mRNA
XM_372154	Homo sapiens similar to bA74P14.2 (novel protein) (LOC389803), mRNA
XM_372157	Homo sapiens similar to HSPC324 (LOC389811), mRNA
XM_372159	Homo sapiens similar to CG15216-PA (LOC389813), mRNA
XM_372160	Homo sapiens similar to LPAL6438 (LOC389814), mRNA
XM_372161	Homo sapiens similar to CDNA sequence BC004853 (LOC389816), mRNA
XM_372162	Homo sapiens LOC389817 (LOC389817), mRNA
XM_372163	Homo sapiens similar to cell recognition molecule CASPR3 isoform 1 (LOC3
XM_372168	Homo sapiens LOC389821 (LOC389821), mRNA
XM_372169	Homo sapiens similar to hypothetical protein (LOC389822), mRNA
XM_372175	Homo sapiens LOC389823 (LOC389823), mRNA
XM_372177	Homo sapiens similar to Surfeit locus protein 1 (LOC389825), mRNA
XM_372180	Homo sapiens similar to RIKEN cDNA 1110002H13 (LOC389827), mRNA

XM_372181	Homo sapiens similar to MSTP058 (LOC389828), mRNA
XM_372182	Homo sapiens hypothetical protein FLJ39378 (FLJ39378), mRNA
XM_372186	Homo sapiens similar to hypothetical protein MGC27019 (LOC389830), mRN
XM 372190	Homo sapiens similar to AF038169 protein (LOC389832), mRNA
XM_372191	Homo sapiens similar to hypothetical protein MGC27019 (LOC389833), mRN
XM_372192	Homo sapiens similar to RIKEN cDNA 2700049P18 (LOC389835), mRNA
XM 372193	Homo sapiens KIAA1751 protein (KIAA1751), mRNA
_	Homo sapiens hypothetical protein MGC13275 (MGC13275), mRNA
XM_372194	Homo sapiens agrin (AGRN), mRNA
XM_372195	
XM_372197	Homo sapiens similar to Glutathione peroxidase 1 (GSHPx-1) (Cellular glutat
XM_372198	Homo sapiens hypothetical protein MGC17403 (MGC17403), mRNA
XM_372199	Homo sapiens similar to MAP/ERK kinase kinase 5; apoptosis signal regulati
XM_372200	Homo sapiens similar to Ran-specific GTPase-activating protein (Ran binding
XM_372201	Homo sapiens similar to hypothetical protein FLJ35782 (LOC389843), mRN/
XM_372202	Homo sapiens similar to ferritin, heavy polypeptide-like 17 (LOC389844), mR
XM_372203	Homo sapiens similar to Amine oxidase [flavin-containing] A (Monoamine oxidase)
XM_372204	Homo sapiens similar to 40S ribosomal protein SA (P40) (34/67 kDa laminin
XM 372205	Homo sapiens similar to hypothetical protein, MGC:7199 (LOC389850), mRN
XM_372208	Homo sapiens similar to dJ54B20.3 (novel protein similar to lysozyme C (1,4
XM 372209	Homo sapiens similar to Acetyl-coenzyme A acyltransferase 2 (LOC389854),
XM_372210	Homo sapiens protein phosphatase 1, regulatory (inhibitor) subunit 3F (PPP'
XM_372212	Homo sapiens similar to G antigen 7 (LOC389855), mRNA
_	Homo sapiens similar to d'artigen y (20000000), initivid Homo sapiens similar to ubiquitin specific protease 27, X chromosome (LOC
XM_372213	Homo sapiens similar to unclear protein p30 (LOC389857), mRNA
XM_372214	
XM_372223	Homo sapiens similar to 28S ribosomal protein S18c, mitochondrial precurso
XM_372224	Homo sapiens similar to PAGE-5 protein (LOC389860), mRNA
XM_372226	Homo sapiens similar to Zinc finger X-linked protein ZXDB (LOC389862), mF
XM_372227	Homo sapiens similar to PAI-1 mRNA-binding protein; chromodomain helicas
XM_372231	Homo sapiens hypothetical protein FLJ20105 (FLJ20105), mRNA
XM_372233	Homo sapiens similar to Selenide, water dikinase 1 (Selenophosphate synthe
XM_372239	Homo sapiens hypothetical protein BC007652 (LOC92129), mRNA
XM_372245	Homo sapiens similar to R28830_1 (LOC389885), mRNA
XM 372247	Homo sapiens similar to RIKEN cDNA 1110012O05 (LOC389887), mRNA
XM 372248	Homo sapiens similar to FLJ20527 protein (LOC389888), mRNA
XM_372253	Homo sapiens similar to ENSANGP00000013187 (LOC389891), mRNA
XM 372254	Homo sapiens similar to Mothers against decapentaplegic homolog interactir
XM 372255	Homo sapiens similar to MGC68553 protein (LOC389895), mRNA
XM 372257	Homo sapiens similar to ubiquitin-conjugating enzyme E2N (LOC389898), m
XM_372258	Homo sapiens similar to HS1 binding protein (LOC389899), mRNA
XM_372261	Homo sapiens similar to DKFZP586L0724 protein (LOC389900), mRNA
_	Homo sapiens similar to ATP-dependent DNA helicase II, 70 kDa subunit (Lu
XM_372262	Homo sapiens zinc finger protein 275 (ZNF275), mRNA
XM_372267	
XM_372268	Homo sapiens similar to Extracellular matrix protein 2 precursor (Matrix glycc
XM_372272	Homo sapiens LOC389905 (LOC389905), mRNA
XM_372273	Homo sapiens similar to Serine/threonine protein kinase PRKX (Protein kinas
XM_372274	Homo sapiens similar to Serine/threonine protein kinase PRKX (Protein kinas
XM_372275	Homo sapiens LOC389911 (LOC389911), mRNA
XM_372282	Homo sapiens cytokine receptor-like factor 2 (CRLF2), mRNA
XM_372286	Homo sapiens neuroligin 4, Y linked (NLGN4Y), mRNA
XM_372289	Homo sapiens chromosome Y open reading frame 15A (CYorf15A), mRNA
XM_372292	Homo sapiens similar to RNA binding motif protein, Y chromosome, family 1
XM_372295	Homo sapiens similar to bA476I15.3 (novel protein similar to septin) (LOC38!
XM 372296	Homo sapiens similar to deleted in azoospermia (LOC389926), mRNA
XM_372302	Homo sapiens similar to 3-hydroxyhexobarbital dehydrogenase 1/3-alpha, 17
XM_372303	Homo sapiens similar to proline-rich proteoglycan 2 (LOC389936), mRNA
XM_372304	Homo sapiens similar to SI:dZ211O13.2 (novel protein) (LOC389938), mRN/
XM_372305	Homo sapiens similar to Gliacolin (LOC389941), mRNA
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XM_372306	
XM_372307	Homo sapiens LOC389950 (LOC389950), mRNA
XM_372308	The supplies to the supplies t
XM_372309	Homo sapiens similar to KIAA1975 protein (LOC389952), mRNA
XM_372310	Homo sapiens similar to lg kappa chain V region (Z4) - human (LOC389953)
XM_372311	Homo sapiens similar to cubilin; intrinsic factor-cobalamin receptor; intrinsic f
XM_372312	Homo sapiens similar to KIAA0592 protein (LOC389959), mRNA
XM_372314	Homo sapiens similar to RIKEN cDNA 2610524G07 (LOC389972), mRNA
XM_372315	Homo sapiens similar to 60S ribosomal protein L12 (LOC389974), mRNA
XM_372316	Homo sapiens similar to Ribosome biogenesis protein BMS1 homolog (LOC:
XM_372317	Homo sapiens similar to hypothetical protein DKFZp586O0120.1 - human (fr
XM_372319	Homo sapiens similar to Gene with similarity to rat kidney-specific (KS) gene
XM_372320	Homo sapiens similar to bA182L21.1 (novel protein similar to hypothetical pr
XM_372321	Homo sapiens similar to bA182L21.1 (novel protein similar to hypothetical pr
XM 372322	Homo sapiens similar to nuclear DNA-binding protein; small unique nuclear r
XM_372323	Homo sapiens similar to nuclear DNA-binding protein; small unique nuclear r
XM_372324	Homo sapiens similar to lipase A precursor; Lipase A, lysosomal acid, choles
XM 372325	Homo saplens similar to Tebp-pending-prov protein (LOC390000), mRNA
XM_372328	Homo sapiens similar to peptidylprolyl isomerase A (cyclophilin A) (LOC3900
XM_372329	Homo sapiens similar to Mitochondrial import receptor subunit TOM22 homol
XM_372330	Homo sapiens similar to 40S ribosomal protein S26 (LOC390009), mRNA
XM_372331	Homo sapiens similar to Sax-1 (LOC390010), mRNA
XM_372334	Homo sapiens similar to double homeobox protein (LOC390016), mRNA
XM 372335	Homo sapiens similar to double homeobox protein (LOC390017), mRNA
XM_372337	Homo sapiens similar to sperm associated AWN protein (LOC390020), mRN
XM_372340	Homo sapiens similar to double homeobox protein (LOC390024), mRNA
XM 372341	Homo sapiens similar to Potential carboxypeptidase-like protein X2 precurso
XM_372343	Homo sapiens similar to RIKEN cDNA 1500011L16 (LOC390031), mRNA
XM 372345	Homo sapiens similar to RIKEN cDNA 1500011L16 (LOC390031), mRNA
XM_372346	Homo sapiens similar to olfactory receptor MOR16-1 (LOC390034), mRNA
XM_372347	Homo sapiens similar to Olfactory receptor 52K1 (LOC390036), mRNA
XM 372348	Homo sapiens similar to Olfactory receptor 5211 (LOC390037), mRNA
XM_372349	Homo sapiens similar to seven transmembrane helix receptor (LOC390038),
XM_372350	Homo sapiens similar to olfactory receptor MOR11-2 (LOC390039), mRNA
XM_372351	Homo sapiens similar to olfactory receptor MOR8-1 (LOC390046), mRNA
XM_372352	Homo sapiens similar to odorant receptor HOR3beta5 (LOC390054), mRNA
XM_372353	Homo sapiens similar to HOR5Beta6 (LOC390058), mRNA
XM 372354	Homo sapiens similar to HOR5Beta7 (LOC390059), mRNA
XM_372355	Homo sapiens similar to Olfactory receptor 51Q1 (LOC390061), mRNA
XM 372356	Homo sapiens similar to Olfactory receptor 5111 (HOR5beta11) (LOC390063
XM_372357	Homo sapiens similar to Olfactory receptor 5112 (HOR5beta12) (LOC390064
XM 372358	Homo sapiens similar to HOR5Beta13 (LOC390065), mRNA
XM_372359	Homo sapiens similar to Olfactory receptor 52D1 (HOR5beta14) (LOC39006)
XM_372360	Homo sapiens similar to seven transmembrane helix receptor (LOC390067),
XM 372361	Homo sapiens similar to Olfactory receptor 52N4 (LOC390072), mRNA
XM_372362	Homo sapiens similar to Olfactory receptor 56B2 (LOC390073), mRNA
XM 372364	Homo sapiens similar to Olfactory receptor 52N1 (LOC390075), mRNA
XM_372365	Homo sapiens similar to Olfactory receptor 52N2 (LOC390077), mRNA
XM_372366	Homo sapiens similar to Olfactory receptor 52E6 (LOC390078), mRNA
XM_372367	Homo sapiens similar to Olfactory receptor 52E6 (LOC390079), mRNA
XM 372368	Homo sapiens similar to Olfactory receptor 52E4 (LOC390081), mRNA
XM_372369	Homo sapiens similar to Olfactory receptor 52E5 (LOC390082), mRNA
XM_372370	Homo sapiens similar to Olfactory receptor 56A6 (LOC390083), mRNA
XM 372371	Homo sapiens similar to Olfactory receptor 56A4 (LOC390084), mRNA
XM_372372	Homo sapiens similar to seven transmembrane helix receptor (LOC390091),
XM 372373	Homo sapiens similar to Olfactory receptor 10A6 (LOC390093), mRNA
XM_372374	Homo sapiens similar to large subunit ribosomal protein L36a (LOC390096),
	, tall 12. 12. 25 decent inducting protein Lova (LOC330030),

XM_372375	Homo sapiens similar to 1-aminocyclopropane-1-carboxylate synthase (LOC:
XM_372376	Homo sapiens similar to Olfactory receptor 4X1 (LOC390113), mRNA
XM 372377	Homo sapiens similar to RIKEN cDNA 0610012A05 (LOC390120), mRNA
XM_372378	Homo sapiens similar to RIKEN cDNA 0610012A05 (LOC390121), mRNA
XM 372379	Homo sapiens similar to hypothetical protein FLJ14082 (LOC390124), mRN/
XM 372380	Homo sapiens similar to RIKEN cDNA 0610012A05 (LOC390125), mRNA
XM_372381	Homo sapiens similar to olfactory receptor MOR234-3 (LOC390128), mRNA
XM_372382	Homo sapiens similar to olfactory receptor MOR231-3 (LOC390133), mRNA
XM_372384	Homo sapiens similar to Olfactory receptor 4A5 (LOC390137), mRNA
XM_372385	Homo sapiens similar to olfactory receptor (LOC390138), mRNA
XM_372386	
XM_372387	Homo sapiens similar to Olfactory receptor 5D13 (LOC390142), mRNA
_	Homo sapiens olfactory receptor, family 5, subfamily L, member 2 (OR5L2), I
XM_372388	Homo sapiens similar to Olfactory receptor 5D16 (LOC390144), mRNA
XM_372389	Homo sapiens similar to seven transmembrane helix receptor (LOC390148),
XM_372390	Homo sapiens similar to Olfactory receptor 8H2 (LOC390151), mRNA
XM_372391	Homo sapiens similar to Olfactory receptor 8H3 (LOC390152), mRNA
XM_372393	Homo sapiens similar to Olfactory receptor 5T3 (LOC390154), mRNA
XM_372394	Homo sapiens similar to seven transmembrane helix receptor (LOC390155),
XM_372395	Homo sapiens similar to Olfactory receptor 8K1 (LOC390157), mRNA
XM_372396	Homo sapiens similar to ribosomal protein L5; 60S ribosomal protein L5 (LOt
XM_372397	Homo sapiens similar to Olfactory receptor 5M9 (LOC390162), mRNA
XM_372399	Homo sapiens similar to seven transmembrane helix receptor (LOC390166),
XM_372400	Homo sapiens similar to Olfactory receptor 5M1 (OST050) (LOC390167), mF
XM_372401	Homo sapiens similar to Olfactory receptor 5M1 (OST050) (LOC390168), mF
XM_372402	Homo sapiens similar to olfactory receptor GA_x6K02T2Q125-47402610-474
XM_372403	Homo sapiens similar to Olfactory receptor 9G1 (LOC390174), mRNA
XM_372404	Homo sapiens similar to GTP-binding protein alpha-s subunit (LOC390175),
XM_372405	Homo sapiens similar to Olfactory receptor 5AK2 (LOC390181), mRNA
XM_372406	Homo sapiens similar to Olfactory receptor 5B2 (OST073) (LOC390186), mR
XM_372409	Homo sapiens similar to Olfactory receptor 5B16 (LOC390191), mRNA
XM_372410	Homo sapiens LOC390192 (LOC390192), mRNA
XM_372411	Homo sapiens similar to Olfactory receptor 5AN1 (LOC390195), mRNA
XM_372412	Homo sapiens similar to seven transmembrane helix receptor (LOC390197),
XM_372413	Homo sapiens similar to seven transmembrane helix receptor (LOC390197), Homo sapiens similar to Olfactory receptor 4D9 (LOC390199), mRNA
XM_372413 XM_372414	Homo sapiens similar to seven transmembrane helix receptor (LOC390197), Homo sapiens similar to Olfactory receptor 4D9 (LOC390199), mRNA Homo sapiens similar to seven transmembrane helix receptor (LOC390201),
XM_372413 XM_372414 XM_372415	Homo sapiens similar to seven transmembrane helix receptor (LOC390197), Homo sapiens similar to Olfactory receptor 4D9 (LOC390199), mRNA Homo sapiens similar to seven transmembrane helix receptor (LOC390201), Homo sapiens similar to membrane-spanning 4-domains, subfamily A, membran
XM_372413 XM_372414 XM_372415 XM_372416	Homo sapiens similar to seven transmembrane helix receptor (LOC390197), Homo sapiens similar to Olfactory receptor 4D9 (LOC390199), mRNA Homo sapiens similar to seven transmembrane helix receptor (LOC390201), Homo sapiens similar to membrane-spanning 4-domains, subfamily A, memt Homo sapiens similar to leucine-rich repeat-containing 10; leucine-rich repeat
XM_372413 XM_372414 XM_372415 XM_372416 XM_372418	Homo sapiens similar to seven transmembrane helix receptor (LOC390197), Homo sapiens similar to Olfactory receptor 4D9 (LOC390199), mRNA Homo sapiens similar to seven transmembrane helix receptor (LOC390201), Homo sapiens similar to membrane-spanning 4-domains, subfamily A, memt Homo sapiens similar to leucine-rich repeat-containing 10; leucine-rich repeat Homo sapiens similar to Double C2, gamma (LOC390213), mRNA
XM_372413 XM_372414 XM_372415 XM_372416 XM_372418 XM_372420	Homo sapiens similar to seven transmembrane helix receptor (LOC390197), Homo sapiens similar to Olfactory receptor 4D9 (LOC390199), mRNA Homo sapiens similar to seven transmembrane helix receptor (LOC390201), Homo sapiens similar to membrane-spanning 4-domains, subfamily A, member Homo sapiens similar to leucine-rich repeat-containing 10; leucine-rich repeathomo sapiens similar to Double C2, gamma (LOC390213), mRNA Homo sapiens similar to chromosome 11 open reading frame2; chromosome
XM_372413 XM_372414 XM_372415 XM_372416 XM_372418 XM_372420 XM_372423	Homo sapiens similar to seven transmembrane helix receptor (LOC390197), Homo sapiens similar to Olfactory receptor 4D9 (LOC390199), mRNA Homo sapiens similar to seven transmembrane helix receptor (LOC390201), Homo sapiens similar to membrane-spanning 4-domains, subfamily A, memt Homo sapiens similar to leucine-rich repeat-containing 10; leucine-rich repeathomo sapiens similar to Double C2, gamma (LOC390213), mRNA Homo sapiens similar to chromosome 11 open reading frame2; chromosome Homo sapiens similar to tripartite motif-containing 43 (LOC390231), mRNA
XM_372413 XM_372414 XM_372415 XM_372416 XM_372418 XM_372420 XM_372423 XM_372424	Homo sapiens similar to seven transmembrane helix receptor (LOC390197), Homo sapiens similar to Olfactory receptor 4D9 (LOC390199), mRNA Homo sapiens similar to seven transmembrane helix receptor (LOC390201), Homo sapiens similar to membrane-spanning 4-domains, subfamily A, memt Homo sapiens similar to leucine-rich repeat-containing 10; leucine-rich repeathomo sapiens similar to Double C2, gamma (LOC390213), mRNA Homo sapiens similar to chromosome 11 open reading frame2; chromosome Homo sapiens similar to tripartite motif-containing 43 (LOC390231), mRNA Homo sapiens similar to tripartite motif-containing 43 (LOC390233), mRNA
XM_372413 XM_372414 XM_372415 XM_372416 XM_372418 XM_372420 XM_372423 XM_372424 XM_372425	Homo sapiens similar to seven transmembrane helix receptor (LOC390197), Homo sapiens similar to Olfactory receptor 4D9 (LOC390199), mRNA Homo sapiens similar to seven transmembrane helix receptor (LOC390201), Homo sapiens similar to membrane-spanning 4-domains, subfamily A, memt Homo sapiens similar to leucine-rich repeat-containing 10; leucine-rich repeathomo sapiens similar to Double C2, gamma (LOC390213), mRNA Homo sapiens similar to chromosome 11 open reading frame2; chromosome Homo sapiens similar to tripartite motif-containing 43 (LOC390231), mRNA Homo sapiens similar to tripartite motif-containing 43 (LOC390233), mRNA Homo sapiens similar to RIKEN cDNA 0610012A05 (LOC390234), mRNA
XM_372413 XM_372414 XM_372415 XM_372416 XM_372418 XM_372420 XM_372423 XM_372424 XM_372425 XM_372426	Homo sapiens similar to seven transmembrane helix receptor (LOC390197), Homo sapiens similar to Olfactory receptor 4D9 (LOC390199), mRNA Homo sapiens similar to seven transmembrane helix receptor (LOC390201), Homo sapiens similar to membrane-spanning 4-domains, subfamily A, memt Homo sapiens similar to leucine-rich repeat-containing 10; leucine-rich repeathomo sapiens similar to Double C2, gamma (LOC390213), mRNA Homo sapiens similar to chromosome 11 open reading frame2; chromosome Homo sapiens similar to tripartite motif-containing 43 (LOC390231), mRNA Homo sapiens similar to tripartite motif-containing 43 (LOC390233), mRNA Homo sapiens similar to RIKEN cDNA 0610012A05 (LOC390237), mRNA Homo sapiens similar to RIKEN cDNA 0610012A05 (LOC390237), mRNA
XM_372413 XM_372414 XM_372415 XM_372416 XM_372420 XM_372423 XM_372423 XM_372424 XM_372425 XM_372426 XM_372427	Homo sapiens similar to seven transmembrane helix receptor (LOC390197), Homo sapiens similar to Olfactory receptor 4D9 (LOC390199), mRNA Homo sapiens similar to seven transmembrane helix receptor (LOC390201), Homo sapiens similar to membrane-spanning 4-domains, subfamily A, memt Homo sapiens similar to leucine-rich repeat-containing 10; leucine-rich repeathomo sapiens similar to Double C2, gamma (LOC390213), mRNA Homo sapiens similar to chromosome 11 open reading frame2; chromosome Homo sapiens similar to tripartite motif-containing 43 (LOC390231), mRNA Homo sapiens similar to tripartite motif-containing 43 (LOC390233), mRNA Homo sapiens similar to RIKEN cDNA 0610012A05 (LOC390237), mRNA Homo sapiens similar to tripartite motif-containing 43 (LOC390237), mRNA Homo sapiens similar to tripartite motif-containing 43 (LOC390238), mRNA
XM_372413 XM_372414 XM_372415 XM_372416 XM_372420 XM_372423 XM_372423 XM_372424 XM_372425 XM_372426 XM_372427 XM_372428	Homo sapiens similar to seven transmembrane helix receptor (LOC390197), Homo sapiens similar to Olfactory receptor 4D9 (LOC390199), mRNA Homo sapiens similar to seven transmembrane helix receptor (LOC390201), Homo sapiens similar to membrane-spanning 4-domains, subfamily A, memt Homo sapiens similar to leucine-rich repeat-containing 10; leucine-rich repeathomo sapiens similar to Double C2, gamma (LOC390213), mRNA Homo sapiens similar to chromosome 11 open reading frame2; chromosome Homo sapiens similar to tripartite motif-containing 43 (LOC390231), mRNA Homo sapiens similar to tripartite motif-containing 43 (LOC390233), mRNA Homo sapiens similar to RIKEN cDNA 0610012A05 (LOC390237), mRNA Homo sapiens similar to tripartite motif-containing 43 (LOC390238), mRNA Homo sapiens similar to tripartite motif-containing 43 (LOC390238), mRNA Homo sapiens similar to folate receptor 3 (LOC390243), mRNA
XM_372413 XM_372414 XM_372415 XM_372416 XM_372420 XM_372423 XM_372424 XM_372425 XM_372426 XM_372427 XM_372428 XM_372429	Homo sapiens similar to seven transmembrane helix receptor (LOC390197), Homo sapiens similar to Olfactory receptor 4D9 (LOC390199), mRNA Homo sapiens similar to seven transmembrane helix receptor (LOC390201), Homo sapiens similar to membrane-spanning 4-domains, subfamily A, memt Homo sapiens similar to leucine-rich repeat-containing 10; leucine-rich repeathomo sapiens similar to Double C2, gamma (LOC390213), mRNA Homo sapiens similar to chromosome 11 open reading frame2; chromosome Homo sapiens similar to tripartite motif-containing 43 (LOC390231), mRNA Homo sapiens similar to tripartite motif-containing 43 (LOC390233), mRNA Homo sapiens similar to RIKEN cDNA 0610012A05 (LOC390234), mRNA Homo sapiens similar to tripartite motif-containing 43 (LOC390237), mRNA Homo sapiens similar to folate receptor 3 (LOC390243), mRNA Homo sapiens similar to FLJ10251 protein (LOC390245), mRNA
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XM_372443	Homo sapiens similar to Olfactory receptor 8A1 (OST025) (LOC390275), mR
XM_372444	Homo sapiens similar to Bcl-2 homologous antagonist/killer (Apoptosis regula
XM_372445	Homo sapiens similar to retinitis pigmentosa GTPase regulator (LOC390278)
XM 372447	Homo sapiens similar to eukaryotic translation initiation factor 3, subunit 5 (e
XM 372448	Homo sapiens similar to signal recognition particle 14kDa (homologous Alu F
XM_372449	
_	Homo sapiens similar to o Ifactory receptor GA_x6K02T2PVTD-14054886-14
XM_372450	Homo sapiens similar to Heterogeneous nuclear ribonucleoprotein A1 (Helix-
XM_372452	Homo sapiens similar to Peptidylprolyl isomerase A (cyclophilin A) (LOC3902
XM_372453	Homo sapiens similar to RIKEN cDNA 1110014F12 (LOC390300), mRNA
XM_372456	Homo sapiens similar to transient receptor protein 6 (LOC390310), mRNA
XM_372457	Homo sapiens similar to o Ifactory receptor like protein (LOC390313), mRNA
XM_372459	Homo sapiens similar to o Ifactory receptor MOR111-1 (LOC390321), mRNA
XM_372460	Homo sapiens similar to o Ifactory receptor MOR112-1 (LOC390323), mRNA
XM 372461	Homo sapiens similar to olfactory receptor MOR109-1 (LOC390324), mRNA
XM 372462	Homo sapiens similar to olfactory receptor GA_x6K02T2PULF-11304679-11:
XM 372463	Homo sapiens similar to olfactory receptor MOR108-4 (LOC390326), mRNA
XM 372464	Homo sapiens similar to olfactory receptor GA_x6K02T2PULF-11553313-11!
XM 372465	Homo sapiens similar to o Ifactory receptor MOR114-12 (LOC390328), mRN/
XM_372466	Homo sapiens similar to poly(A) binding protein, cytoplasmic 4 isoform 2 (LO
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XM_372468	Homo sapiens similar to T-box transcription factor TBX20 (LOC390338), mRI
XM_372469	Homo sapiens similar to Gag-Pro-Pol-Env protein (LOC390342), mRNA
XM_372470	Homo sapiens similar to microtubule-associated proteins 1A/1B light chain 3
XM_372471	Homo sapiens similar to 60S ribosomal protein L10 (QM protein) (Tumor sup
XM_372472	Homo sapiens similar to Small nuclear ribonucleoprotein Sm D2 (snRNP con
XM_372473	Homo sapiens similar to eukaryotic translation elongation factor 1 alpha 1; C
XM_372474	Homo sapiens similar to ri bosomal protein L9 (LOC390353), mRNA
XM_372476	Homo sapiens similar to dynein, axonemal, heavy chain 11; situs inversus via
XM_372480	Homo sapiens similar to KIAA1786 protein (LOC390365), mRNA
XM 372482	Homo sapiens similar to 40S ribosomal protein S6 (Phosphoprotein NP33) (L
XM 372483	Homo sapiens similar to proline rich protein 2 (LOC390371), mRNA
XM 372485	Homo sapiens similar to Mitochondrial ornithine transporter 1 (Solute carrier
XM 372486	Homo sapiens similar to Alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3-l
XM_372487	Homo sapiens similar to chromosome 9 open reading frame 12; 1,3,4,5,6-pe
XM_372488	Homo sapiens similar to histone 1, H2bc; H2B histone family, member S (LO
XM_372490	· · · · · · · · · · · · · · · · · · ·
_	Homo sapiens similar to Striatin (LOC390387), mRNA
XM_372491	Homo sapiens similar to g lyceraldehyde-3-phosphate dehydrogenase (phosphare applies to A DR ATR continue protein T3, bureau (LOC300405)
XM_372493	Homo sapiens similar to ADP,ATP carrier protein T2 - human (LOC390405),
XM_372494	Homo sapiens similar to chromosome 15 open reading frame 2 (LOC390414
XM_372496	Homo sapiens similar to ADP-ribosylation factor 4 (LOC390423), mRNA
XM_372497	Homo sapiens similar to mKIAA0324 protein (LOC390426), mRNA
XM_372498	Homo sapiens LOC390427 (LOC390427), mRNA
XM_372499	Homo sapiens similar to Olfactory receptor 4M1 (LOC390428), mRNA
XM_372500	Homo sapiens similar to Olfactory receptor 4N2 (LOC390429), mRNA
XM_372501	Homo sapiens similar to Olfactory receptor 4K2 (LOC390431), mRNA
XM 372502	Homo sapiens similar to olfactory receptor MOR239-6 (LOC390432), mRNA
XM_372503	Homo sapiens similar to Olfactory receptor 4K13 (LOC390433), mRNA
XM 372504	Homo sapiens similar to Olfactory receptor 4K17 (LOC390436), mRNA
XM_372505	Homo sapiens similar to Olfactory receptor 4N5 (LOC390437), mRNA
XM 372506	Homo sapiens similar to Olfactory receptor 11G2 (LOC390439), mRNA
XM_372507	Homo sapiens similar to Olfactory receptor 11H4 (LOC390442), mRNA
XM_372508	Homo sapiens similar to Ribonuclease-like protein 9 precursor (LOC390443)
XM_372509	Homo sapiens similar to Offsctory receptor 5AU1 (LOC390445), mRNA
XM_372521	Homo sapiens similar to SMT3 suppressor of mif two 3 homolog 2 (LOC3904
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XM_372522	
XM_372524	Homo sapiens LOC390481 (LOC390481), mRNA
XM_372525	Homo sapiens similar to ribosomal protein L31 (LOC390485), mRNA
XM_372527	Homo sapiens similar to 60S ribosomal protein L21 (LOC390488), mRNA

XM_372528	Homo sapiens hypothetical protein FLJ36749 (FLJ36749), mRNA
XM_372532	Homo sapiens similar to Alpha-1-antitrypsin-related protein precursor (LOC3!
XM_372534	Homo sapiens similar to proline-rich glycoprotein (sgp158) (LOC390507), mF
XM 372535	Homo sapiens similar to MGC53446 protein (LOC390508), mRNA
XM 372536	Homo sapiens similar to chloride intracellular channel 6; chloride channel for
XM_372542	Homo sapiens similar to protein kinase related to Raf protein kinases; Metho
XM_372543	Homo sapiens similar to immunoglobulin heavy-chain-2 light-chain-2 VH seg
XM_372544	Homo sapiens similar to hect domain and RLD 2 (LOC390533), mRNA
XM_372547	Homo sapiens similar to CDC42-binding protein kinase alpha isoform A; ser-
XM_372548	Homo sapiens similar to Olfactory receptor 4M2 (LOC390538), mRNA
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XM_372549	Homo sapiens similar to seven transmembrane helix receptor (LOC390539),
XM_372550	Homo sapiens similar to salivary proline-rich protein (LOC390540), mRNA
XM_372553	Homo sapiens similar to neuronal nonacetlycholine binding subunit (LOC390
XM_372555	Homo sapiens similar to hect domain and RLD 2 (LOC390549), mRNA
XM_372556	Homo sapiens similar to hect domain and RLD 2 (LOC390551), mRNA
XM_372559	Homo sapiens similar to Dynamin-1 (D100) (Dynamin, brain) (B-dynamin) (L0
XM_372560	Homo sapiens similar to hect (homologous to the E6-AP (UBE3A) carboxyl to
XM_372562	Homo sapiens similar to neuronal nicotinic acetylcholine receptor beta4 subt
XM_372563	Homo sapiens similar to amyloid beta A4 precursor protein-binding, family A,
XM_372565	Homo sapiens similar to amyloid beta A4 precursor protein-binding, family A,
XM_372566	Homo sapiens similar to GLP_457_13116_11626 (LOC390570), mRNA
XM_372568	Homo sapiens similar to casein kinase 1, alpha 1 (LOC390575), mRNA
XM_372569	Homo sapiens similar to KIAA1728 protein (LOC390577), mRNA
-XM_372570	Homo sapiens similar to zinc finger protein 444; endothelial zinc finger protei
XM_372573	Homo sapiens similar to hypothetical protein BC009980 (LOC390594), mRN.
XM_372574	Homo sapiens similar to ubiquitin associated protein (LOC390595), mRNA
XM_372575	Homo sapiens similar to cell division cycle 2-like 1 (PITSLRE proteins) isofor
XM_372576	Homo sapiens similar to RIKEN cDNA C230094B15 (LOC390598), mRNA
XM_372577	Homo sapiens similar to High mobility group protein 1 (HMG-1) (Amphoterin)
XM 372578	Homo sapiens hypothetical protein LOC123346 (LOC123346), mRNA
XM_372579	Homo sapiens similar to Dynamin-1 (D100) (Dynamin, brain) (B-dynamin) (L0
XM 372580	Homo sapiens similar to Dynamin-1 (D100) (Dynamin, brain) (B-dynamin) (LC
XM_372581	Homo sapiens similar to hypothetical protein FLJ20452 (LOC390611), mRN/
XM 372583	Homo sapiens similar to Dynamin-1 (D100) (Dynamin, brain) (B-dynamin) (L0
XM 372584	Homo sapiens similar to RIKEN cDNA 6430502M16 gene (LOC390616), mR
XM_372585	Homo sapiens similar to hypothetical protein DKFZp434I1020 (LOC390623),
XM 372586	Homo sapiens similar to golgi autoantigen golgin subfamily a2-like (LOC3906
XM 372588	Homo sapiens similar to hypothetical protein (LOC390633), mRNA
XM 372589	Homo sapiens similar to RIKEN cDNA D330012F22 gene (LOC390637), mR
XM 372591	Homo sapiens similar to Golgi autoantigen, golgin subfamily a, 2; golgin-95;
XM_372592	Homo sapiens hypothetical protein LOC145814 (LOC145814), mRNA
XM_372593	Homo sapiens similar to Serine/threonine protein kinase PRKX (Protein kinas
XM_372596	Homo sapiens similar to Olfactory receptor 4F6 (LOC390648), mRNA
XM_372597	Homo sapiens similar to Olfactory receptor 4F15 (LOC390649), mRNA
XM_372598	Homo sapiens similar to Olfactory receptor 4F14 (LOC390650), mRNA
XM_372599	Homo sapiens similar to olfactory receptor MOR245-8 (LOC390651), mRNA
XM_372601	Homo sapiens similar to hect domain and RLD 2 (LOC390654), mRNA
_	Homo sapiens similar to C1q Related (LOC390664), mRNA
XM_372606	Homo sapiens similar to Neuronal pentraxin II precursor (NP-II) (NP2) (LOC3
XM_372607	Homo sapiens similar to hypothetical protein 6820428D13 (LOC390668), mF
XM_372608	
XM_372609	Homo sapiens similar to ATP-binding cassette transporter ABCA3 (LOC3906
XM_372611	Homo sapiens similar to Hypothetical protein MGC56918 (LOC390680), mRt
XM_372614	Homo sapiens similar to NAD(P) dependent steroid dehydrogenase-like (LOC
XM_372615	Homo sapiens LOC390684 (LOC390684), mRNA
XM_372616	Homo sapiens similar to CDC37-like gene (LOC390688), mRNA
XM_372617	Homo sapiens similar to Protein C20orf27 (LOC390690), mRNA
XM_372618	Homo sapiens similar to Filamin B (FLN-B) (Beta-filamin) (Actin-binding like

XM_372622	Homo sapiens similar to hypothetical protein MGC5244 (LOC390697), mRN/
XM_372625	Homo sapiens similar to protein kinase related to Raf protein kinases; Metho
XM_372626	Homo sapiens similar to protein phosphatase 2A 48 kDa regulatory subunit it
XM_372628	Homo sapiens similar to Ig heavy chain - human (fragment) (LOC390709), m
XM_372629	Homo sapiens similar to Ig H-chain V-region (DP-40) (LOC390710), mRNA
XM_372630	Homo sapiens similar to immunog lobulin M chain (LOC390712), mRNA
XM_372631	Homo sapiens similar to immunog lobulin M chain (LOC390713), mRNA
XM_372632	Homo sapiens similar to Ig H-chain V-region (DP-39) (LOC390714), mRNA
XM_372633	Homo sapiens similar to Ig heavy chain - human (fragment) (LOC390715), m
XM_372634	Homo sapiens similar to double homeobox protein (LOC390718), mRNA
XM_372637	Homo sapiens similar to Rab31-like (LOC390728), mRNA
XM_372638	Homo sapiens similar to 60S ribosomal protein L10 (QM protein homolog) (L
XM_372639	Homo sapiens similar to carboxylesterase 3 (LOC390732), mRNA
XM_372640	Homo sapiens similar to chromosome 15 open reading frame 2 (LOC390734
XM_372641	Homo sapiens similar to Spermatogenesis associated protein 2 (Spermatoge
XM 372642	Homo sapiens similar to MGC9515 protein (LOC390737), mRNA
XM 372643	Homo sapiens similar to mKIAA1261 protein (LOC390738), mRNA
XM 372644	Homo sapiens similar to Serine/Threonine protein kinase (LOC390743), mRI
XM 372646	Homo sapiens similar to proline rich protein (LOC390747), mRNA
XM 372647	Homo sapiens hypothetical protein LOC348180 (LOC348180), mRNA
XM 372648	Homo sapiens similar to embryonic poly(A) binding protein 2 (LOC390748), r
XM 372650	Homo sapiens similar to putative protein (LOC390753), mRNA
XM 372651	Homo sapiens similar to hypothetical class II basic helix-loop-helix protein (L
XM_372654	Homo sapiens similar to RIKEN cDNA 2810408A11 (LOC390760), mRNA
XM 372655	Homo sapiens similar to RIKEN cDNA 9930039A11 gene (LOC390761), mRI
XM 372657	Homo sapiens similar to 60S ribosomal protein L23a (LOC390765), mRNA
XM 372658	Homo sapiens similar to Ribonuclease H1 (RNase H1) (Ribonuclease H type
XM 372660	Homo sapiens similar to Ubiquitin-conjugating enzyme E2-24 kDa (Ubiquitin-
XM 372662	Homo sapiens similar to ubiquitin specific protease 6; tre-2 oncogene; hyper
XM 372663	Homo sapiens similar to Ribosomal protein S6 kinase I (S6K) (P70-S6K) (LO
XM_372666	Homo sapiens similar to Chemokine (C-C motif) ligand 3-like 1 (LOC390788)
XM 372668	Homo sapiens similar to ADP-ribo sylation factor-like 8; ADP-ribosylation-like
XM 372669	Homo sapiens similar to type I hair keratin 6 (LOC390792), mRNA
XM 372670	Homo sapiens similar to keratin associated protein 2-4; keratin associated pr
XM 372673	Homo sapiens similar to hypothetical protein A930006D11 (LOC390796), mF
XM_372675	Homo sapiens similar to wingless-type MMTV integration site family, member
XM_372676	Homo sapiens similar to S100 calcium-binding protein A10; S100 calcium-bir
XM 372677	Homo sapiens similar to DEAH (Asp-Glu-Ala-His) box polypeptide 40 (LOC3)
XM_372678	Homo sapiens similar to Monocarboxylate transporter 7 (MCT 6) (LC
XM 372679	Homo sapiens similar to cleavage and polyadenylation specific factor 4; mus
XM 372680	Homo sapiens similar to Hypothetical protein KIAA0176 (LOC390814), mRN
XM 372682	Homo sapiens similar to L-threonine aldolase (LOC390816), mRNA
XM_372685	Homo sapiens similar to aminopeptidase puromycin sensitive; puromycin-sei
XM 372687	Homo sapiens similar to hypotheti cal protein BC007436 (LOC390824), mRN
XM_372689	Homo sapiens similar to mitochondrial carrier triple repeat 1 (LOC390828), n
XM 372692	Homo sapiens similar to KIAA0563-related gene (LOC390845), mRNA
XM_372693	Homo sapiens similar to 27 kDa Golgi SNARE protein (Golgi SNAP receptor
XM_372695	Homo sapiens similar to Chain A, Crystal Structure Of The R463a Mutant Of
XM_372696	Homo sapiens similar to FKSG30 (LOC390861), mRNA
XM_372697	Homo sapiens similar to minus agglutinin (LOC390864), mRNA
XM_372698	Homo sapiens similar to hypothetical protein (LOC390865), mRNA
XM 372700	Homo sapiens similar to immediate early protein homolog (LOC390869), mR
XM_372701	Homo sapiens similar to CXYorf1-related protein (LOC390871), mRNA
XM_372702	Homo sapiens similar to onecut 3 (LOC390874), mRNA
XM_372702 XM_372703	Homo sapiens similar to fos39347_1 (LOC390875), mRNA
XM_372704	Homo sapiens similar to ribosomal protein L35 (LOC390876), mRNA
XM_372705	Homo sapiens similar to adenylate kinase (EC 2.7.4.3), cytosolic - common c
<u>.</u> 512100	The supposed strings to addresses missoo (to the trop sylboolio - collillott t

	11.1/10000001
XM_372707	Homo sapiens similar to nuclear factor, interleukin 3, regulated (LOC390880)
XM_372708	Homo sapiens similar to Olfactory receptor 7G2 (Olfactory receptor 19-13) (C
XM_372709	Homo sapiens similar to Olfactory receptor 7G3 (OST085) (LOC390883), mF
XM_372711	Homo sapiens similar to 60S RIBOSOMAL PROTEIN L12 (LOC390891), mR
XM 372712	Homo sapiens similar to Olfactory receptor 7A10 (OST027) (LOC390892), m
XM_372714	Homo sapiens similar to Olfactory receptor 7A2 (LOC390894), mRNA
XM_372715	Homo sapiens similar to olfactory receptor, family 7, subfamily A, member 17
XM_372716	Homo sapiens widely-interspaced zinc finger motifs (WIZ), mRNA
XM_372719	Homo sapiens similar to Zinc finger protein 492 (LOC390906), mRNA
_	Homo sapiens similar to Zinc finger protein 93 (Zinc finger protein HTF34) (L
XM_372720	Homo sapiens similar to cytochrome P450 monooxygenase (LOC390914), r
XM_372721	
XM_372723	Homo sapiens similar to RP2 protein, testosterone-regulated - ricefield mous
XM_372724	Homo sapiens similar to Zinc finger protein 132 (LOC390920), mRNA
XM_372726	Homo sapiens similar to hypothe tical protein (LOC390927), mRNA
XM_372727	Homo sapiens similar to RIKEN cDNA C330005M16 (LOC390928), mRNA
XM_372728	Homo sapiens similar to HSPC270 (LOC390929), mRNA
XM_372730	Homo sapiens similar to Erf (LOC390937), mRNA
XM_372731	Homo sapiens similar to pregnancy specific beta-1-glycoprotein 1 (LOC3909
XM_372732	Homo sapiens similar to R28379_1 (LOC390940), mRNA
XM_372733	Homo sapiens LOC390941 (LOC390941), mRNA
XM 372735	Homo sapiens similar to paraneoplastic neuronal antigen MM2 (LOC390945)
XM 372737	Homo sapiens similar to heterogeneous nuclear ribonucleoprotein M isoform
XM 372740	Homo sapiens similar to ENSAN GP00000004655 (LOC390955), mRNA
XM 372741	Homo sapiens similar to peptidyI-Pro cis trans isomerase (LOC390956), mRI
XM_372745	Homo sapiens similar to Zinc finger protein Kr18 (HKr18) (LOC390963), mR1
XM_372746	Homo sapiens similar to YME1-like 1; ATP-dependent metalloprotease FtsH'
XM_372748	Homo sapiens similar to 1060P1 1.3 (killer inhibitory receptor 2-2-2 (KIR222)
_	Homo sapiens similar to protein kinase Bsk146 (LOC390975), mRNA
XM_372749	Homo sapiens similar to ret finger protein-like 1 (LOC390976), mRNA
XM_372750	Homo sapiens similar to zinc finger protein 495 (LOC390977), mRNA
XM_372751	
XM_372753	Homo sapiens similar to Zinc finger protein 264 (LOC390980), mRNA
XM_372754	Homo sapiens similar to 583041 7C01Rik protein (LOC390981), mRNA
XM_372755	Homo saplens similar to RIKEN cDNA B230396O12 (LOC390988), mRNA
XM_372757	Homo sapiens similar to helix-loop-helix transcription factor (LOC390992), m
XM_372758	Homo sapiens similar to Solute carrier family 2, facilitated glucose transporte
XM_372759	Homo sapiens similar to 60S ribosomal protein L10 (QM protein) (Tumor sup
XM_372760	Homo sapiens similar to Hypothetical protein DJ1198H6.2 (LOC390999), mF
XM_372761	Homo sapiens similar to Hypothetical protein DJ845O24.2 (LOC391001), mF
XM_372762	Homo sapiens similar to Hypothetical protein DJ1198H6.2 (LOC391002), mF
XM_372763	Homo sapiens similar to hypothetical protein (LOC391003), mRNA
XM_372764	Homo sapiens similar to Hypothetical protein DJ845O24.2 (LOC391004), mF
XM 372765	Homo sapiens similar to KIAA1026 protein (LOC391005), mRNA
XM_372767	Homo sapiens similar to Peptidyl arginine deiminase, egg and embryo abunc
XM_372768	Homo sapiens similar to Putative dynein light chain protein DJ8B22.1 (LOC3
XM_372769	Homo sapiens similar to Group IIC secretory phospholipase A2 precursor (Pl
XM_372770	Homo sapiens similar to hypothetical protein AE2 (LOC391015), mRNA
XM_372771	Homo sapiens similar to secreted acid phosphatase 2 (SAP2) (LOC391021),
XM_372773	Homo sapiens similar to ribosomal protein L18a; 60S ribosomal protein L18a
XM_372774	Homo sapiens hypothetical protein DJ159A19.3 (DJ159A19.3), mRNA
XM_372775	Homo sapiens similar to protein tyrosine phosphatase, receptor type, U isofo
XM 372776	Homo sapiens similar to chromosome 14 open reading frame 138 (LOC3910
	Homo sapiens similar to difformosome 14 open reading matter 130 (EOC3310 Homo sapiens similar to forkhead box protein O6 (LOC391030), mRNA
XM_372777	Homo sapiens similar to 40S ribosomal protein S15a (LOC391035), mRNA
XM_372778	
XM_372779	Homo sapiens similar to RIKEN cDNA 5730434103 gene (LOC391040), mRN
XM_372780	Homo sapiens similar to Solute Carrier family 2, facilitated glucose transporte
XM_372781	Homo saplens similar to NAD-dependent deacetylase sirtuin 5 (SIR2-like pro
XM_372784	Homo sapiens similar to Stroma I cell derived factor receptor 2 (LOC391059),

XM_372785	Homo sapiens similar to peptidylprolyl isomerase A (cyclophilin A) (LOC3910
XM_372788	Homo sapiens similar to SNAG1 (LOC391086), mRNA
XM_372789	Homo sapiens similar to hypothetical protein MGC8902 (LOC391088), mRN/
XM_372792	Homo sapiens similar to Hypothetical protein DJ845O24.1 (LOC391092), mF
XM 372795	Homo sapiens similar to histone protein Hist2h3c1 (LOC391097), mRNA
XM 372796	Homo sapiens similar to Olfactory receptor 10K1 (LOC391107), mRNA
XM 372797	Homo sapiens similar to Olfactory receptor 10K1 (LOC391109), mRNA
XM 372798	Homo sapiens similar to seven transmembrane helix receptor (LOC391110),
XM 372799	Homo sapiens similar to Olfactory receptor 6Y1 (LOC391112), mRNA
XM 372800	Homo sapiens similar to Olfactory receptor 6K3 (LOC391114), mRNA
XM_372801	Homo sapiens similar to porcine serum amyloid P component (SAP) (LOC39
XM_372802	Homo sapiens similar to hypothetical protein A030011M19 (LOC391123), mF
XM_372802 XM_372803	Homo sapiens similar to ribosomal protein S17 (LOC391130), mRNA
_	Homo sapiens similar to hypothetical protein BC015183 (LOC391133), mRN.
XM_372804	Homo sapiens similar to dJ612B18.1 (similar to 40S ribosomal protein) (LOC
XM_372805	Homo sapiens similar to doo 12510.1 (similar to 400 hosomar protein) (200 homo sapiens similar to Multisynthetase complex auxiliary component p43 (l
XM_372806	
XM_372807	Homo sapiens similar to Rho-GTPase-activating protein 8 (LOC391144), mR
XM_372809	Homo sapiens LOC391156 (LOC391156), mRNA
XM_372811	Homo sapiens similar to ribosomal protein L31 (LOC391161), mRNA
XM_372812	Homo sapiens similar to Glyceraldehyde 3-phosphate dehydrogenase, liver (
XM_372813	Homo sapiens similar to Voltage-dependent anion-selective channel protein
XM_372815	Homo sapiens similar to 40S ribosomal protein S26 (LOC391165), mRNA
XM_372816	Homo sapiens similar to hypothetical protein D11Ertd497e (LOC391169), mF
XM_372817	Homo sapiens similar to hypothetical protein (LOC391170), mRNA
XM_372818	Homo sapiens similar to kinesin-like protein (103.5 kD) (klp-6) (LOC391185),
XM_372820	Homo sapiens similar to Olfactory receptor 11L1 (LOC391189), mRNA
XM_372821	Homo sapiens similar to Olfactory receptor 2L8 (LOC391190), mRNA
XM_372822	Homo sapiens similar to Olfactory receptor 2AK2 (LOC391191), mRNA
XM_372823	Homo sapiens olfactory receptor, family 2, subfamily L, member 2 (OR2L2),
XM_372824	Homo sapiens similar to seven transmembrane helix receptor (LOC391192),
XM_372825	Homo sapiens similar to Olfactory receptor 2M6 (LOC391194), mRNA
XM_372826	Homo sapiens similar to seven transmembrane helix receptor (LOC391195),
XM_372827	Homo sapiens similar to Olfactory receptor 2M7 (LOC391196), mRNA
XM_372833	Homo sapiens similar to Hypothetical protein FLJ10709 (LOC391201), mRN
XM_372834	Homo sapiens similar to Tissue alpha-L-fucosidase precursor (Alpha-L-fucos
XM_372838	Homo sapiens similar to RIKEN cDNA B230396O12 (LOC391205), mRNA
XM_372840	Homo sapiens similar to ribosomal protein L36; 60S ribosomal protein L36 (L
XM_372841	Homo sapiens similar to Olfactory receptor 2T3 (LOC391210), mRNA
XM_372842	Homo sapiens similar to Olfactory receptor 2G3 (LOC391211), mRNA
XM_372843	Homo sapiens similar to Olfactory receptor 2T5 (LOC391212), mRNA
XM_372845	Homo sapiens similar to seven transmembrane helix receptor (LOC391214),
XM_372858	Homo sapiens similar to scratch; scratch 1 (LOC391226), mRNA
XM_372859	Homo sapiens similar to Homeobox protein Nkx-2.4 (Homeobox protein NKX
XM_372863	Homo sapiens similar to nodulin (LOC391240), mRNA
XM_372864	Homo sapiens similar to Soggy-1 protein precursor (SGY-1) (LOC391241), n
XM_372866	Homo sapiens similar to LPIN3 (LOC391248), mRNA
XM_372869	Homo sapiens similar to dJ601O1.1 (novel protein with Kunitz/Bovine pancre
XM_372870	Homo sapiens similar to Ubiquitin-like protein SMT3C precursor (Ubiquitin-ho
XM_372871	Homo sapiens similar to bA164D18.1 (novel protein similar to KIAA0233) (LC
XM_372873	Homo sapiens similar to putative glycine-rich protein (LOC391261), mRNA
XM_372874	Homo sapiens similar to salivary proline-rich protein (LOC391262), mRNA
XM_372875	Homo sapiens similar to KIAA0685 protein (LOC391268), mRNA
XM_372876	Homo sapiens similar to hypothetical protein DKFZp434A171 (LOC391269),
XM_372878	Homo sapiens similar to 60S ribosomal protein L23a (LOC391282), mRNA
XM_372879	Homo sapiens chromosome 21 open reading frame 57 (C21orf57), mRNA
XM_372880	Homo sapiens LOC391284 (LOC391284), mRNA
XM_372882	Homo sapiens hypothetical protein LOC128954 (LOC128954), mRNA

XM_372884	Homo sapiens cat eye syndrome chromosome region, candidate 2 (CECR2).
XM_372887	Homo sapiens similar to minus agglutinin (LOC391296), mRNA
XM_372889	Homo sapiens similar to KIAA0649 protein (LOC391298), mRNA
XM_372890	Homo sapiens LOC391299 (LOC391299), mRNA
XM_372891	Homo sapiens LOC391303 (LOC391303), mRNA
XM_372892	Homo sapiens similar to KIAA0649 protein (LOC391304), mRNA
XM_372893	Homo sapiens similar to sushi domain containing 2; Sushi domain (SCR repe
XM_372894	Homo sapiens similar to Hypothetical protein DJ1198H6.2 (LOC391306), mF
XM_372900	Homo sapiens similar to D-dopachrome tautomerase (Phenylpyruvate tauton
XM_372901	Homo sapiens similar to tum- transplantation antigen P198 (LOC391328), ml
XM_372905	Homo sapiens similar to KIAA0563 gene product (LOC391335), mRNA
XM_372907	Homo sapiens similar to erythrocyte membrane-associated giant protein anti
XM_372908	Homo sapiens similar to vitelline envelope sperm lysin receptor (LOC391340
XM_372910	Homo sapiens similar to Hypothetical protein CBG24508 (LOC391342), mRN
XM_372911	Homo sapiens similar to CG2839-PA (LOC391343), mRNA
XM_372913	Homo sapiens similar to Mucin 2 precursor (Intestinal mucin 2) (LOC391347)
XM_372914	Homo sapiens similar to MGC52970 protein (LOC391348), mRNA
XM_372916	Homo sapiens similar to peptidyl-Pro cis trans isomerase (LOC391352), mRI
XM_372917	Homo sapiens similar to Cerebellar-degene ration-related antigen 1 (CDR34)
XM_372918	Homo sapiens similar to Mothers against decapentaplegic homolog interactir
XM_372919	Homo sapiens similar to ENSANGP000000 18456 (LOC391356), mRNA
XM_372920	Homo sapiens similar to Ubiquinol-cytochrome C reductase complex 11 kDa
XM_372921	Homo sapiens similar to hypothetical protein HSPC152 (LOC391358), mRN/
XM_372922	Homo sapiens similar to Epithelial membrane protein-2 (EMP-2) (XMP protei
XM_372923	Homo sapiens similar to class II basic helix-loop-helix protein TCF23 (LOC39
XM_372924	Homo sapiens similar to human alpha-caternin (LOC391362), mRNA
XM_372926	Homo sapiens similar to ribosomal protein S12 (LOC391370), mRNA
XM_372927	Homo sapiens tetratricopeptide repeat domain 7 (TTC7), mRNA
XM_372928	Homo sapiens similar to C-terminal binding protein 2 isoform 2; ribeye (LOC3
XM_372933	Homo sapiens similar to immunoglobulin kappa light chain variable region O
XM_372940	Homo sapiens similar to Adrenoleukodystrophy protein (ALDP) (LOC391403)
XM_372941	Homo sapiens similar to Ig kappa chain V region (Z4) - human (LOC391405)
XM_372942	Homo sapiens similar to immunoglobulin anti-gp96/grp94 variable region of t
XM_372945	Homo sapiens similar to phenol sulfotransferase (LOC391418), mRNA
XM_372946	Homo sapiens similar to sulfotransferase 1C (LOC391419), mRNA
XM_372947	Homo sapiens similar to Ribosome biogenesis protein BMS1 homolog (LOC:
XM_372950	Homo sapiens similar to ENSANGP000000 O4103 (LOC391426), mRNA
XM_372952	Homo sapiens similar to Ig kappa chain precursor V region (orphon V108) - h
XM_372953	Homo sapiens similar to Selenide, water dikinase 1 (Selenophosphate synthe
XM_372954	Homo sapiens similar to hypothetical protein (LOC391429), mRNA
XM_372957	Homo sapiens similar to FKSG30 (LOC391 442), mRNA
XM_372958	Homo sapiens similar to PRED65 (LOC391 445), mRNA Homo sapiens similar to rRNA intron-encoded homing endonuclease (LOC391)
XM_372959	
XM_372963	Homo sapiens similar to Kinesin heavy chain isoform 5C (Kinesin heavy chain Homo sapiens similar to ATP synthase alpha chain, mitochondrial precursor
XM_372964	
XM_372965	Homo sapiens similar to KIAA0181 (LOC391456), mRNA Homo sapiens similar to protein 40kD (LOC391462), mRNA
XM_372966	Homo sapiens similar to dim1; dim1 (S. pombe) (LOC391466), mRNA
XM_372967 XM_372969	Homo sapiens similar to DYStrophin related (417.4 kD) (dys-1) (LOC391475)
XM_372909	Homo sapiens similar to Alpha-endosulfine (LOC391481), mRNA
XM 372973	Homo sapiens similar to guanidinoacetate methyltransferase; GAMT (LOC39
XM_372974	Homo sapiens similar to UDP-glucuronosyltransferase 1-5 precursor, micros
XM_372975	Homo sapiens similar to TAR DNA-binding protein-43 (TDP-43) (LOC391494
XM_372977	Homo sapiens similar to olfactory receptor MOR208-2 (LOC391496), mRNA
XM_372978	Homo sapiens similar to ENSANGP00000007346 (LOC391497), mRNA
XM_372979	Homo sapiens similar to Involucrin (LOC39 1498), mRNA
XM_372980	Homo sapiens similar to EST gb ATTS1136 comes from this gene. (LOC391)
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XM_372981	Homo sapiens similar to Hypothetical protein CBG20540 (LOC391501), mRN
XM_372982	Homo sapiens similar to Gamma-2-syntrophin (G2SYN) (Syntrophin 5) (SYN
XM_372983	Homo sapiens syntrophin, gamma 2 (SNTG2), mRNA
XM_372984	Homo sapiens similar to Drosophila melanogaster CG8797 gene product-rela
XM 372985	Homo sapiens similar to CHCHD4 protein (LOC391510), mRNA
XM_372986	Homo sapiens similar to WD repeat domain 10 isoform 3 (LOC391512), mRt
XM_372987	Homo sapiens similar to ENSANGP00000014786 (LOC391513), mRNA
XM_372988	
_	Homo sapiens similar to peptidyl-Pro cis trans isomerase (LOC391532), mRI
XM_372991	Homo sapiens similar to coated vesicle membrane protein (LOC391540), mF
XM_372992	Homo sapiens similar to hypothetical protein FLJ23834 (LOC391542), mRN/
XM_372993	Homo sapiens similar to MGC39820 protein (LOC391544), mRNA
XM_372995	Homo sapiens similar to Msx2-interacting protein (SMART/HDAC1 associate
XM_372996	Homo sapiens similar to hypothetical protein DKFZp434L0850 (LOC391555)
XM_372997	Homo sapiens olfactory receptor, family 5, subfamily K, member 1 (OR5K1),
XM_372998	Homo sapiens similar to MLRQ subunit of the NADH ubiquinone oxidoreduct
XM_373001	Homo sapiens similar to Histone H2B.n (H2B/n) (H2B.2) (LOC391566), mRN
XM_373002	Homo sapiens similar to Succinate dehydrogenase [ubiquinone] iron-sulfur p
XM_373003	Homo sapiens similar to peptidyl-Pro cis trans isomerase (LOC391587), mRI
XM_373004	Homo sapiens similar to KIAA1552 protein (LOC391594), mRNA
XM_373005	Homo sapiens similar to alpha-1 platein precursor (LOC391601), mRNA
XM 373006	Homo sapiens similar to Probable ATP-dependent helicase DHX34 (DEAH-b
XM_373007	Homo sapiens LOC391610 (LOC391610), mRNA
XM_373007	Homo sapiens HPX-153 homeobox (HSPX153), mRNA
XM_373009 XM_373016	· · · · · · · · · · · · · · · · · · ·
	Homo sapiens similar to deubiquitinating enzyme 3 (LOC391622), mRNA
XM_373021	Homo sapiens similar to deubiquitinating enzyme 3 (LOC391628), mRNA
XM_373022	Homo sapiens similar to seven transmembrane helix receptor (LOC391630),
XM_373025	Homo sapiens similar to SNAG1 (LOC391652), mRNA
XM_373026	Homo sapiens similar to Hypothetical protein MGC66426 (LOC391654), mRt
XM_373027	Homo sapiens similar to 40S ribosomal protein S15a (LOC391656), mRNA
XM_373028	Homo sapiens similar to UDP-glucuronosyltransferase (LOC391661), mRNA
XM_373029	Homo sapiens similar to Synaptic glycoprotein SC2 (LOC391676), mRNA
XM_373030	Homo sapiens hypothetical protein LOC285556 (LOC285556), mRNA
XM_373031	Homo sapiens similar to TUBULIN BETA CHAIN (LOC391692), mRNA
XM_373033	Homo sapiens similar to ribosoma protein S23 (LOC391701), mRNA
XM_373035	Homo sapiens similar to RIKEN cDNA 9930021J17 (LOC391705), mRNA
XM_373036	Homo sapiens similar to Chromatin accessibility complex protein 1 (CHRAC-
XM 373037	Homo sapiens similar to ring finger protein 129 (LOC391711), mRNA
XM_373038	Homo sapiens similar to ring finger protein 129 (LOC391712), mRNA
XM_373039	Homo sapiens similar to ring finger protein 129 (LOC391714), mRNA
XM_373040	Homo sapiens similar to RING finger protein 15 (Zinc finger protein RoRet) (
XM 373041	Homo sapiens similar to Claudin-22 (LOC391721), mRNA
XM_373041 XM_373042	Homo sapiens similar to Claudin-22 (LOC391721), mixing Homo sapiens similar to myosin:SUBUNIT=regulatory light chain (LOC39172
_	
XM_373043	Homo sapiens similar to Heslike (LOC391723), mRNA
XM_373053	Homo sapiens similar to Microneme antigen (LOC391733), mRNA
XM_373056	Homo sapiens similar to Transcription initiation factor TFIID 28 kDa subunit (
XM_373057	Homo sapiens similar to Transcription initiation factor TFIID 28 kDa subunit (
XM_373058	Homo sapiens similar to Transcription initiation factor TFIID 28 kDa subunit (
XM_373059	Homo sapiens similar to Transcription initiation factor TFIID 28 kDa subunit (
XM_373061	Homo sapiens similar to Transcription initiation factor TFIID 28 kDa subunit (
XM_373073	Homo sapiens similar to Transcription initiation factor TFIID 28 kDa subunit (
XM_373075	Homo sapiens similar to Transcription initiation factor TFIID 28 kDa subunit (
XM_373076	Homo sapiens similar to TAF11 RNA polymerase II, TATA box binding protei
XM_373077	Homo sapiens similar to Transcription initiation factor TFIID 28 kDa subunit (
XM_373078	Homo sapiens similar to Transcription initiation factor TFIID 28 kDa subunit (
XM_373079	Homo sapiens similar to histone (15.4 kD) (his-72) (LOC391769), mRNA
XM_373080	Homo sapiens similar to ENSANGP00000014197 (LOC391770), mRNA
XM_373082	Homo sapiens similar to CG12279-PA (LOC391784), mRNA

XM_373084	Homo sapiens similar to ribosomal protein L31 (LOC391789), mRNA
XM_373085	Homo sapiens similar to cadherin 12, type 2 preproprotein; Br-cadherin; cadh
XM_373087	Homo sapiens similar to cadherin 12, type 2 preproprotein; Br-cadherin; cadh
XM_373088	Homo sapiens similar to cadherin 12, type 2 preproprotein; Br-cadherin; cadh
XM 373089	Homo sapiens similar to hypothetical protein FLJ10891 (LOC391796), mRN/
XM 373090	Homo sapiens LOC391797 (LOC391797), mRNA
XM 373091	Homo sapiens similar to 60S ribosomal protein L10 (QM protein homolog) (L
XM 373092	Homo sapiens similar to peptidyl-Pro cis trans isomerase (LOC391807), mRI
XM_373093	Homo sapiens similar to 28 kDa heat- and acid-stable phosphoprotein (PDGI
XM_373093	
	Homo sapiens similar to protease (prosome, macropain) 26S subunit, ATPas
XM_373096	Homo sapiens similar to 60S RIBOSOMAL PROTEIN L21 (LOC391823), mR
XM_373097	Homo sapiens similar to Thyroid hormone receptor-associated protein compl
XM_373098	Homo sapiens similar to beta-tropomyosin (LOC391844), mRNA
XM_373099	Homo sapiens similar to hypothetical protein (LOC391847), mRNA
XM_373100	Homo sapiens similar to 60S ribosomal protein L10 (QM protein homolog) (L
XM_373101	Homo sapiens similar to neuralized homolog (LOC391849), mRNA
XM_373103	Homo sapiens similar to Beta-1,4-galactosyltransferase 7 (Beta-1,4-GalTase
XM_373106	Homo sapiens similar to Tb-291 membrane associated protein (LOC391859)
XM_373107	Homo sapiens similar to cAMP-regulated phosphoprotein 19 (ARPP-19) (LO
XM_373109	Homo sapiens hypothetical protein LOC34O156 (LOC340156), mRNA
XM_373156	Homo sapiens hypothetical protein MGC26484 (MGC26484), mRNA
XM 373157	Homo sapiens similar to Phosphorylase B kinase gamma catalytic chain, ske
XM 373170	Homo sapiens hypothetical protein LOC54103 (LOC54103), mRNA
XM 373171	Homo sapiens similar to dynein, cytoplasmic, light peptide; 8kD LC; dynein L
XM_373178	Homo sapiens similar to Zn-alpha-2-glycoprotein precursor (LOC392082), ml
XM 373180	Homo sapiens similar to Cohesin subunit SA-3 (Stromal antigen 3) (SCC3 hc
XM_373190	Homo sapiens similar to dJ753D5.2 (novel protein similar to RPS17 (40S ribo
XM_373209	Homo sapiens similar to seven transmembrane helix receptor (LOC392133),
XM_373209 XM_373210	· · · · · · · · · · · · · · · · · · ·
-	Homo sapiens similar to olfactory receptor MOR261-1 (LOC392138), mRNA
XM_373214	Homo sapiens similar to Mtr3 (mRNA transport regulator 3)-homolog; Mtr3 (n
XM_373219	Homo sapiens similar to gastrulation brain homeobox 1 (LOC392152), mRN/
XM_373223	Homo sapiens similar to polycystic kidney disease 1-like 3 (LOC392159), mF
XM_373224	Homo sapiens similar to cAMP-dependent protein kinase type I-beta regulato
XM_373227	Homo sapiens similar to Olfactory receptor 4F3 (LOC392167), mRNA
XM_373233	Homo sapiens similar to 60S ribosomal protein L10 (QM protein) (Tumor sup
XM_373234	Homo sapiens similar to demidefensin 3 (LOC392182), mRNA
XM_373236	Homo sapiens similar to chromosome 11 open reading frame2; chromosome
XM_373238	Homo sapiens similar to deubiquitinating enzyme 3 (LOC392188), mRNA
XM_373239	Homo sapiens similar to ubiquitin-specific protease 17-like protein (LOC3921
XM_373241	Homo sapiens similar to beta-1,4-mannosyltransferase; beta-1,4 mannosyltra
XM_373242	Homo sapiens similar to 60S ribosomal protein L10 (QM protein homolog) (L
XM_373243	Homo sapiens similar to deubiquitinating enzyme 3 (LOC392197), mRNA
XM_373245	Homo sapiens similar to 60S ribosomal protein L32 (LOC392202), mRNA
XM 373246	Homo sapiens similar to Ac2-210 (LOC392208), mRNA
XM 373248	Homo sapiens similar to VENT-like homeobox 2; hemopoietic progenitor hon
XM_373249	Homo sapiens similar to Ig lambda light chain leader and V-region (LOC3922
XM_373250	Homo sapiens similar to Band 4.1-like protein 5 (LOC392218), mRNA
XM_373252	Homo sapiens similar to coiled-coil-helix-coiled-coil-helix domain containing 2
XM_373253	Homo sapiens similar to RIKEN cDNA 0610038D11 (LOC392222), mRNA
XM_373255	Homo sapiens similar to hypothetical class II basic helix-loop-helix protein (L
XM_373257	Homo sapiens similar to large subunit ribosomal protein L36a (LOC392248),
XM_373259	Homo sapiens similar to glyceraldehyde-3-phosphate dehydrogenase (LOC3
XM_373260	Homo saplens similar to growth differentiation factor 16 (LOC392255), mRN/
XM_373263	Homo sapiens similar to laminin-binding protein (LOC392262), mRNA
XM_373265	Homo sapiens similar to cDNA sequence BC024139 (LOC392274), mRNA
XM_373266	Homo sapiens similar to sphingomyelin phosphodiesterase 3, neutral membr
XM_373270	Homo sapiens similar to Rab coupling protein; Rab-interacting recycling protein

XM_373275	Homo sapiens similar to peptidyl-Pro cis trans isomerase (LOC392285), mRI
XM 373276	Homo sapiens similar to chromosome 15 open reading frame 12; mitochondi
XM_373277	Homo sapiens similar to microtubule-associated proteins 1A/1B light chain 3
XM_373281	Homo sapiens similar to Chloride intracellular channel protein 4 (Intracellular
XM 373283	Homo sapiens similar to Ferritin light chain (Ferritin L subunit) (LOC392299),
XM_373284	Homo sapiens similar to High mobility group protein 4-like (HMG-4L) (LOC39
XM_373287	Homo sapiens similar to RIKEN cDNA 4930412F15 gene (LOC392307), mRI
XM_373288	Homo sapiens similar to Olfactory receptor 70 (LOC392308), mRNA
XM_373289	Home series similar to Office to Transport (10 C0000000), mRNA
	Homo sapiens similar to Olfactory receptor 13J1 (LOC392309), mRNA
XM_373290	Homo sapiens similar to high mobility group protein homolog HMG4 (LOC39;
XM_373295	Homo sapiens similar to hypothetical protein MGC17986 (LOC392332), mRN
XM_373297	Homo sapiens LOC392339 (LOC392339), mRNA
XM_373298	Homo sapiens similar to adenylate kinase 3 alpha like (LOC392347), mRNA
XM_373300	Homo sapiens similar to tMDC I (LOC392351), mRNA
XM_373301	Homo sapiens similar to peptidyl-Pro cis trans isomerase (LOC392352), mRI
XM_373302	Homo sapiens similar to ORF2 (LOC392355), mRNA
XM_373303	Homo sapiens similar to Eukaryotic translation initiation factor 3 subunit 1 (el
XM_373304	Homo sapiens similar to Cathepsin L precursor (Major excreted protein) (MEI
XM_373305	Homo sapiens similar to chromosome 15 open reading frame 2 (LOC392364
XM_373308	Homo sapiens similar to Olfactory receptor 1 3C2 (LOC392376), mRNA
XM_373309	Homo sapiens similar to constitutive photomorphogenic protein (LOC392379
XM_373310	Homo sapiens similar to large subunit riboso mal protein L36a (LOC392381),
XM 373311	Homo sapiens similar to ribosomal protein L31 (LOC392382), mRNA
XM_373312	Homo sapiens similar to 60S ribosomal protein L32 (LOC392384), mRNA
XM 373313	Homo sapiens olfactory receptor, family 1, subfamily J, member 5 (OR1J5), r
XM 373314	Homo sapiens similar to G protein-coupled receptor homolog clone H8 (LOC
XM 373315	Homo sapiens similar to Olfactory receptor 1 L6 (LOC392390), mRNA
XM 373316	Homo sapiens similar to Olfactory receptor 5C1 (Olfactory receptor 9-F) (OR
XM 373317	Homo sapiens similar to Olfactory receptor 1 K1 (LOC392392), mRNA
XM 373319	Homo sapiens similar to hemicentin (LOC392395), mRNA
XM_373320	Homo sapiens similar to Von Ebners gland protein precursor (VEG protein) (
XM 373322	Homo sapiens similar to Putative MUP-like lipocalin precursor (VEO protein) (
XM 373324	Homo sapiens similar to Ankyrin repeat domain protein 5 (LOC392404), mRi
XM_373325	Homo sapiens similar to Pim1 (LOC392405), mRNA
XM 373326	Homo sapiens similar to hypothetical protein (LOC392406), mRNA
XM_373327	Homo sapiens similar to Glutamate [NMDA] receptor subunit zeta 1 precurso
XM_373328	Homo sapiens similar to hypothetical protein FLJ20433 (LOC392409), mRN/
XM 373329	Homo sapiens similar to NADPH-dependent FMN and FAD containing oxidor
XM_373331	Homo sapiens similar to paranemin (LOC392411), mRNA
XM_373334	Homo sapiens similar to MGC43306 protein (LOC392411), mRNA
XM_373335	Homo sapiens similar to Phenylalanine-4-hydroxylase (PAH) (Phe-4-monoox
XM_373336	
XM_373337	Homo sapiens similar to 1060P11.3 (killer inhibitory receptor 2-2-2 (KIR222)
	Homo sapiens similar to protein kinase C, zeta (LOC392420), mRNA
XM_373338 XM_373339	Homo saplens similar to bA92K2.2 (similar to ubiquitin) (LOC392425), mRNA
	Homo sapiens similar to Nucleolar phosphoprotein p130 (Nucleolar 130 kDa
XM_373340	Homo sapiens similar to melanoma antigen, family B, 6 (LOC392433), mRN/
XM_373341	Homo sapiens similar to PR264/SC35 (LOC392439), mRNA
XM_373343	Homo sapiens similar to 60S ribosomal protein L32 (LOC392447), mRNA
XM_373344	Homo sapiens similar to CpG binding protein (Protein containing PHD finger
XM_373345	Homo sapiens similar to synovial sarcoma, X breakpoint 6 (LOC392462), mF
XM_373347	Homo sapiens similar to RIKEN cDNA 2010001H14 (LOC392465), mRNA
XM_373348	Homo sapiens similar to melanoma antigen (LOC392466), mRNA
XM_373349	Homo sapiens similar to melanoma antigen, family B, 4; melanoma-associate
XM_373350	Homo sapiens similar to nuclear protein p30 (LOC392468), mRNA
XM_373351	Homo sapiens similar to dJ834A16.1 (similar to PGAM) (LOC392473), mRN/
XM_373352	Homo sapiens similar to XAGE-5 protein (LO C392475), mRNA
XM_373353	Homo sapiens similar to Probable G protein-coupled receptor GPR83 precur-

XM_373354	Homo sapiens similar to ribosomal protein L31 (LOC392487), mRNA
XM_373355	Homo sapiens similar to Ras homolog gene family, member G (LOC392489)
XM_373356	Homo sapiens similar to Translationally controlled tumor protein (TCTP) (p23
XM_373357	Homo sapiens LOC392491 (LOC392491), mRNA
XM 373358	Homo sapiens similar to hypothetical protein DKFZp761H079 isoform 1 (LOC
XM 373359	Homo sapiens similar to histone H2B-related protein (LOC392512), mRNA
XM 373362	Homo sapiens similar to dJ820B18.1 (similar to nuclear cap binding protein)
XM 373365	Homo sapiens similar to Serine/threonine-protein kinase PRP4 homolog (PR
XM 373366	Homo sapiens similar to beta-tubulin 1 (LOC392528), mRNA
XM 373367	Homo sapiens similar to RIKEN cDNA 2900070E19 (LOC392531), mRNA
XM_373368	Homo sapiens similar to Histone H3.3 (LOC392533), mRNA
XM_373369	Homo sapiens similar to Heat shock cognate 71 kDa protein (LOC392535), r
XM_373370	Homo sapiens similar to TJP4 protein (LOC392539), mRNA
XM_373372	Homo sapiens similar to hypothetical protein FLJ20527 (LOC392546), mRN/
XM_373373	Homo sapiens similar to Glyceraldehyde 3-phosphate dehydrogenase, liver (
XM_373374	Homo sapiens similar to Ras-related protein Rab-28 (Rab-26) (LOC392551),
XM_373378	Homo sapiens similar to hypothetical protein MGC15827 (LOC392559), mRN
XM_373381	Homo sapiens H2A histone family, member B (H2AFB), mRNA
XM_373382	Homo sapiens similar to neurofilament-like protein (LOC392563), mRNA
XM_373384	Homo sapiens similar to testis expressed sequence 13A (LOC392566), mRN
XM_373388	Homo sapiens similar to Menkes Disease (ATP7A) (LOC392570), mRNA
XM_373391	Homo sapiens similar to Zinc finger protein ZFD25 (LOC392576), mRNA
XM_373395	Homo sapiens similar to testis specific protein, Y-linked (LOC392582), mRN/
XM_373397	Homo sapiens similar to testis specific protein, Y-linked (LOC392584), mRN/
XM_373398	Homo sapiens similar to Testis-Specific Protein Y (TSPY) (LOC392586), mR
XM_373399	Homo sapiens similar to Sedlin (Trafficking protein particle complex protein 2
XM_373407	Homo sapiens nuclear receptor subfamily 2, group F, member 6 (NR2F6), m
XM_373413	Homo sapiens hypothetical protein FLJ20847 (FLJ20847), mRNA
XM_373419	Homo sapiens valyl-tRNA synthetase 2-like (VARS2L), mRNA
XM_373431	Homo sapiens hypothetical protein BC004360 (LOC87769), mRNA
XM_373433	Homo sapiens hypothetical protein BC004360 (LOC87769), mRNA Homo sapiens hypothetical protein BC002926 (LOC90379), mRNA
XM_373433 XM_373440	Homo sapiens hypothetical protein BC004360 (LOC87769), mRNA Homo sapiens hypothetical protein BC002926 (LOC90379), mRNA Homo sapiens chondroitin sulfate synthase 3 (CSS3), mRNA
XM_373433 XM_373440 XM_373444	Homo sapiens hypothetical protein BC004360 (LOC87769), mRNA Homo sapiens hypothetical protein BC002926 (LOC90379), mRNA Homo sapiens chondroitin sulfate synthase 3 (CSS3), mRNA Homo sapiens LOC399709 (LOC387630), mRNA
XM_373433 XM_373440 XM_373444 XM_373445	Homo sapiens hypothetical protein BC004360 (LOC87769), mRNA Homo sapiens hypothetical protein BC002926 (LOC90379), mRNA Homo sapiens chondroitin sulfate synthase 3 (CSS3), mRNA Homo sapiens LOC399709 (LOC387630), mRNA Homo sapiens LOC399710 (LOC387631), mRNA
XM_373433 XM_373440 XM_373444 XM_373445 XM_373446	Homo sapiens hypothetical protein BC004360 (LOC87769), mRNA Homo sapiens hypothetical protein BC002926 (LOC90379), mRNA Homo sapiens chondroitin sulfate synthase 3 (CSS3), mRNA Homo sapiens LOC399709 (LOC387630), mRNA Homo sapiens LOC399710 (LOC387631), mRNA Homo sapiens LOC399711 (LOC387632), mRNA
XM_373433 XM_373440 XM_373444 XM_373445 XM_373446 XM_373447	Homo sapiens hypothetical protein BC004360 (LOC87769), mRNA Homo sapiens hypothetical protein BC002926 (LOC90379), mRNA Homo sapiens chondroitin sulfate synthase 3 (CSS3), mRNA Homo sapiens LOC399709 (LOC387630), mRNA Homo sapiens LOC399710 (LOC387631), mRNA Homo sapiens LOC399711 (LOC387632), mRNA Homo sapiens LOC399714 (LOC387633), mRNA
XM_373433 XM_373440 XM_373444 XM_373445 XM_373446 XM_373447 XM_373448	Homo sapiens hypothetical protein BC004360 (LOC87769), mRNA Homo sapiens hypothetical protein BC002926 (LOC90379), mRNA Homo sapiens chondroitin sulfate synthase 3 (CSS3), mRNA Homo sapiens LOC399709 (LOC387630), mRNA Homo sapiens LOC399710 (LOC387631), mRNA Homo sapiens LOC399711 (LOC387632), mRNA Homo sapiens LOC399714 (LOC387633), mRNA Homo sapiens LOC399722 (LOC387636), mRNA
XM_373433 XM_373440 XM_373444 XM_373445 XM_373446 XM_373447 XM_373448 XM_373449	Homo sapiens hypothetical protein BC004360 (LOC87769), mRNA Homo sapiens hypothetical protein BC002926 (LOC90379), mRNA Homo sapiens chondroitin sulfate synthase 3 (CSS3), mRNA Homo sapiens LOC399709 (LOC387630), mRNA Homo sapiens LOC399710 (LOC387631), mRNA Homo sapiens LOC399711 (LOC387632), mRNA Homo sapiens LOC399714 (LOC387633), mRNA Homo sapiens LOC399722 (LOC387636), mRNA Homo sapiens LOC399724 (LOC387638), mRNA
XM_373433 XM_373440 XM_373444 XM_373445 XM_373446 XM_373447 XM_373448 XM_373449 XM_373450	Homo sapiens hypothetical protein BC004360 (LOC87769), mRNA Homo sapiens hypothetical protein BC002926 (LOC90379), mRNA Homo sapiens chondroitin sulfate synthase 3 (CSS3), mRNA Homo sapiens LOC399709 (LOC387630), mRNA Homo sapiens LOC399710 (LOC387631), mRNA Homo sapiens LOC399711 (LOC387632), mRNA Homo sapiens LOC399714 (LOC387633), mRNA Homo sapiens LOC399722 (LOC387636), mRNA Homo sapiens LOC399725 (LOC387639), mRNA Homo sapiens LOC399725 (LOC387639), mRNA
XM_373433 XM_373440 XM_373444 XM_373445 XM_373447 XM_373448 XM_373449 XM_373450 XM_373451	Homo sapiens hypothetical protein BC004360 (LOC87769), mRNA Homo sapiens hypothetical protein BC002926 (LOC90379), mRNA Homo sapiens chondroitin sulfate synthase 3 (CSS3), mRNA Homo sapiens LOC399709 (LOC387630), mRNA Homo sapiens LOC399710 (LOC387631), mRNA Homo sapiens LOC399711 (LOC387632), mRNA Homo sapiens LOC399714 (LOC387633), mRNA Homo sapiens LOC399722 (LOC387636), mRNA Homo sapiens LOC399724 (LOC387638), mRNA Homo sapiens LOC399725 (LOC387639), mRNA Homo sapiens hypothetical gene supported by AK056080; AL832706; BC014
XM_373433 XM_373440 XM_373444 XM_373445 XM_373447 XM_373448 XM_373449 XM_373450 XM_373451 XM_373452	Homo sapiens hypothetical protein BC004360 (LOC87769), mRNA Homo sapiens hypothetical protein BC002926 (LOC90379), mRNA Homo sapiens chondroitin sulfate synthase 3 (CSS3), mRNA Homo sapiens LOC399709 (LOC387630), mRNA Homo sapiens LOC399710 (LOC387631), mRNA Homo sapiens LOC399711 (LOC387632), mRNA Homo sapiens LOC399714 (LOC387633), mRNA Homo sapiens LOC399722 (LOC387636), mRNA Homo sapiens LOC399724 (LOC387638), mRNA Homo sapiens LOC399725 (LOC387639), mRNA Homo sapiens LOC399735 (LOC387649), mRNA
XM_373433 XM_373440 XM_373444 XM_373445 XM_373447 XM_373448 XM_373449 XM_373450 XM_373451 XM_373452 XM_373453	Homo sapiens hypothetical protein BC004360 (LOC87769), mRNA Homo sapiens hypothetical protein BC002926 (LOC90379), mRNA Homo sapiens chondroitin sulfate synthase 3 (CSS3), mRNA Homo sapiens LOC399709 (LOC387630), mRNA Homo sapiens LOC399710 (LOC387631), mRNA Homo sapiens LOC399711 (LOC387632), mRNA Homo sapiens LOC399714 (LOC387633), mRNA Homo sapiens LOC399722 (LOC387636), mRNA Homo sapiens LOC399724 (LOC387638), mRNA Homo sapiens LOC399725 (LOC387639), mRNA Homo sapiens LOC399735 (LOC387649), mRNA Homo sapiens LOC399735 (LOC387649), mRNA Homo sapiens LOC399741 (LOC387654), mRNA
XM_373433 XM_373440 XM_373444 XM_373445 XM_373447 XM_373448 XM_373449 XM_373450 XM_373451 XM_373452 XM_373453 XM_373454	Homo sapiens hypothetical protein BC004360 (LOC87769), mRNA Homo sapiens hypothetical protein BC002926 (LOC90379), mRNA Homo sapiens chondroitin sulfate synthase 3 (CSS3), mRNA Homo sapiens LOC399709 (LOC387630), mRNA Homo sapiens LOC399710 (LOC387631), mRNA Homo sapiens LOC399711 (LOC387632), mRNA Homo sapiens LOC399714 (LOC387633), mRNA Homo sapiens LOC399722 (LOC387636), mRNA Homo sapiens LOC399724 (LOC387638), mRNA Homo sapiens LOC399725 (LOC387639), mRNA Homo sapiens LOC399735 (LOC387649), mRNA Homo sapiens LOC399741 (LOC387654), mRNA Homo sapiens LOC399741 (LOC387654), mRNA Homo sapiens LOC399743 (LOC387656), mRNA
XM_373433 XM_373440 XM_373444 XM_373445 XM_373447 XM_373448 XM_373450 XM_373451 XM_373452 XM_373453 XM_373454 XM_373454 XM_373456	Homo sapiens hypothetical protein BC004360 (LOC87769), mRNA Homo sapiens hypothetical protein BC002926 (LOC90379), mRNA Homo sapiens chondroitin sulfate synthase 3 (CSS3), mRNA Homo sapiens LOC399709 (LOC387630), mRNA Homo sapiens LOC399710 (LOC387631), mRNA Homo sapiens LOC399711 (LOC387632), mRNA Homo sapiens LOC399714 (LOC387633), mRNA Homo sapiens LOC399722 (LOC387636), mRNA Homo sapiens LOC399724 (LOC387638), mRNA Homo sapiens LOC399725 (LOC387639), mRNA Homo sapiens LOC399735 (LOC387639), mRNA Homo sapiens LOC399735 (LOC387649), mRNA Homo sapiens LOC399741 (LOC387654), mRNA Homo sapiens LOC399743 (LOC387656), mRNA Homo sapiens hypothetical gene supported by BX538120 (LOC387662), mR
XM_373443 XM_373444 XM_373445 XM_373446 XM_373447 XM_373448 XM_373450 XM_373451 XM_373452 XM_373453 XM_373454 XM_373456 XM_373460	Homo sapiens hypothetical protein BC004360 (LOC87769), mRNA Homo sapiens hypothetical protein BC002926 (LOC90379), mRNA Homo sapiens chondroitin sulfate synthase 3 (CSS3), mRNA Homo sapiens LOC399709 (LOC387630), mRNA Homo sapiens LOC399710 (LOC387631), mRNA Homo sapiens LOC399711 (LOC387632), mRNA Homo sapiens LOC399714 (LOC387632), mRNA Homo sapiens LOC399722 (LOC387636), mRNA Homo sapiens LOC399724 (LOC387638), mRNA Homo sapiens LOC399725 (LOC387639), mRNA Homo sapiens LOC399725 (LOC387639), mRNA Homo sapiens LOC399735 (LOC387649), mRNA Homo sapiens LOC399741 (LOC387654), mRNA Homo sapiens LOC399743 (LOC387656), mRNA Homo sapiens LOC399743 (LOC387656), mRNA Homo sapiens LOC399764 (LOC387656), mRNA Homo sapiens LOC399764 (LOC387675), mRNA
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           Homo sapiens LOC399825 (LOC387722), mRNA
XM 373480 Homo sapiens LOC399828 (LOC387724), mRNA
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           Homo sapiens LOC399856 (LOC387746), mRNA
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           Homo sapiens LOC399871 (LOC387756), mRNA
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XM_374473	Homo sapiens similar to general transcription factor II, i isoform 1; BTK-asso
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XM 374637	Homo sapiens similar to acyl coAthonolacygycerol acyltransierase 2 (LOC: Homo sapiens similar to alpha-2-glycoprotein 1, zinc; Alpha-2-glycoprotein, z
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XM_374648	Homo sapiens similar to RIKEN cDNA 1500011L16 (LOC392982), mRNA
XM_374650	Homo sapiens similar to ribosomal protein S14 (LOC392988), mRNA
XM_374653	Homo sapiens similar to CG6293-PA (LOC392993), mRNA
XM_374655	Homo sapiens similar to dJ753D5.2 (novel protein similar to RPS17 (40S ribo
XM_374657	Homo sapiens similar to dGTPase (EC 3.1.5.1) - mouse (fragment) (LOC393
XM_374680	Homo sapiens similar to seven transmembrane helix receptor (LOC393037).
XM_374682	Homo sapiens similar to Olfactory receptor 6B1 (Olfactory receptor 7-3) (OR
XM_374683	Homo sapiens similar to olfactory receptor MOR261-13 (LOC393046), mRN/
XM_374684	Homo sapiens similar to olfactory receptor MOR261-1 (LOC393047), mRNA
XM_374687	Homo sapiens similar to seven transmembrane helix receptor (LOC393051),
XM_374689	Homo sapiens similar to seven transmembrane helix receptor (LOC393053),
XM_374694	Homo sapiens similar to Mtr3 (mRNA transport regulator 3)-homolog; Mtr3 (n
XM_374699 XM_374702	Homo sapiens similar to gastrulation brain homeobox 1 (LOC393070), mRN/
XM_374702	Homo sapiens similar to envelope protein (LOC393073), mRNA
XM_374706	Homo sapiens similar to polycystic kidney disease 1-like 3 (LOC393078), mF
XM_374710	Homo sapiens similar to 60S RIBOSOMAL PROTEIN L21 (LOC393079), mR Homo sapiens LOC392620 (LOC392620), mRNA
XM_374711	Homo sapiens LOC392621 (LOC392621), mRNA
XM_374713	Homo sapiens similar to Zinc finger protein 268 (Zinc finger protein HZF3) (L
XM_374715	Homo sapiens LOC392641 (LOC392641), mRNA
XM_374721	Homo sapiens LOC392657 (LOC392657), mRNA
XM_374722	Homo sapiens LOC392659 (LOC392659), mRNA
XM_374730	Homo sapiens LOC392702 (LOC392702), mRNA
XM_374734	Homo sapiens LOC392726 (LOC392726), mRNA
XM_374735	Homo sapiens LOC392730 (LOC392730), mRNA
XM_374741	Homo sapiens LOC392749 (LOC392749), mRNA
XM_374751	Homo sapiens LOC392790 (LOC392790), mRNA
XM_374752	Homo sapiens LOC392791 (LOC392791), mRNA
XM_374761	Homo sapiens LOC392849 (LOC392849), mRNA
XM_374763	Homo sapiens LOC393076 (LOC393076), mRNA

XM_374764	Homo sapiens LOC393080 (LOC393080), mRNA
XM_374765	Homo sapiens similar to cDNA sequence BC016423 (LOC399712), mRNA
XM 374766	Homo sapiens hypothetical gene supported by AK128185 (LOC399715), mR
XM_374767	Homo sapiens similar to hypothetical protein (LOC399716), mRNA
XM 374768	Homo sapiens USP6 N-terminal like (USP6NL), mRNA
XM 374769	Homo sapiens similar to USP6NL protein (LOC399718), mRNA
XM_374770	Homo sapiens similar to seven transmembrane helix receptor (LOC399719),
XM_374779	
XM_374779 XM_374781	Homo sapiens ankyrin repeat domain 26 (ANKRD26), mRNA
XM_374781	Homo sapiens hypothetical protein LOC220906 (LOC220906), mRNA
_	Homo sapiens similar to supervillin isoform 2; membrane-associated F-actin
XM_374786	Homo sapiens similar to hypothetical protein LOC349114 (LOC399744), mRI
XM_374787	Homo sapiens similar to hypothetical protein FLJ40432 (LOC399747), mRN/
XM_374792	Homo sapiens similar to Hypothetical protein KIAA0514 (LOC399755), mRN,
XM_374799	Homo sapiens similar to ARF GTPase-activating protein (LOC399758), mRN
XM_374801	Homo sapiens similar to ARF GTPase-activating protein (LOC399761), mRN
XM_374802	Homo sapiens similar to DKFZP566K0524 protein (LOC399762), mRNA
XM_374803	Homo sapiens similar to LINE-1 REVERSE TRANSCRIPTASE HOMOLOG (I
XM_374807	Homo sapiens similar to ARF GTPase-activating protein (LOC399769), mRN
XM_374809	Homo sapiens similar to activator of S phase kinase (LOC399777), mRNA
XM_374810	Homo sapiens similar to activator of S phase kinase (LOC399778), mRNA
XM_374813	Homo sapiens similar to peptidylprolyl isomerase A (cyclophilin A) (LOC3997
XM_374817	Homo sapiens similar to bA182L21.1 (novel protein similar to hypothetical pr
XM_374829	Homo sapiens programmed cell death 11 (PDCD11), mRNA
XM_374830	Homo sapiens similar to hypothetical protein LOC119395 (LOC399807), mRI
XM_374831	Homo sapiens SH3 multiple domains 1 (SH3MD1), mRNA
XM_374832	Homo sapiens similar to ribosomal protein L13a; 60S ribosomal protein L13a
XM_374835	Homo sapiens similar to RIKEN cDNA 1700022C21 (LOC399814), mRNA
XM_374836	Homo sapiens similar to hypothetical protein FLJ13490 (LOC399815), mRN/
XM_374839	Homo sapiens similar to CG9643-PA (LOC399818), mRNA
XM_374840	Homo sapiens similar to CG15021-PA (LOC399819), mRNA
XM_374842	Homo sapiens hypothetical gene supported by AK094354 (LOC399821), mR
XM_374844	Homo sapiens similar to hypothetical protein B130055A05 (LOC399823), mF
XM_374847	Homo sapiens similar to shadow of prion protein; Shadoo (LOC399831), mR
XM_374851	Homo sapiens similar to Synaptotagmin XV (SytXV) (Chr10Syt) (LOC399837
XM_374852	Homo sapiens similar to double homeobox protein (LOC399839), mRNA
XM_374854	Homo sapiens similar to nuclear receptor coactivator 4; RET-activating gene
XM_374855	Homo sapiens similar to Glutamate dehydrogenase 1, mitochondrial precursi
XM_374857	Homo sapiens similar to bA476l15.3 (novel protein similar to septin) (LOC39
XM_374858	Homo sapiens hypothetical gene supported by AK093729; AK128780; AL111
XM_374860	Homo sapiens tumor protein p53 inducible protein 5 (TP53I5), mRNA
XM_374864	Homo sapiens hypothetical gene supported by AK091259 (LOC399857), mR
XM_374873 XM_374877	Homo sapiens similar to RIKEN cDNA 3830422K02 (LOC399870), mRNA
_	Homo sapiens hypothetical protein DKFZp779M0652 (DKFZp779M0652), ml
XM_374879	Homo sapiens hypothetical protein LOC114971 (LOC114971), mRNA
XM_374880	Homo sapiens hypothetical gene supported by BC065704 (LOC399888), mR
XM_374882	Homo sapiens similar to Metabotropic glutamate receptor 5 precursor (mGlul
XM_374885	Homo sapiens hypothetical gene supported by AK128188 (LOC399898), mR
XM_374890	Homo sapiens hypothetical gene supported by AK093779 (LOC399900), mR
XM_374893 XM_374898	Homo sapiens LOC399904 (LOC399904), mRNA
XM_374898 XM_374899	Homo sapiens similar to pecanex-like 3 (LOC399909), mRNA
XM 374900	Homo sapiens similar to Gag-Pro-Pol protein (LOC399913), mRNA
XM_374900 XM_374902	Homo sapiens similar to beta-1,4-mannosyltransferase; beta-1,4 mannosyltra
XM_374904	Homo sapiens similar to polymerase (LOC399917), mRNA Homo sapiens similar to SH3 and multiple ankyrin repeat domains protein 2
XM_374904 XM_374905	Homo sapiens similar to 5H3 and multiple ankyrin repeat domains protein 2 i Homo sapiens similar to proline rich synapse associated protein 1 isoform E;
XM_374906	Homo sapiens similar to profine fich synapse associated protein 1 isoform E; Homo sapiens hypothetical gene supported by AK124096 (LOC399923), mR
XM_374907	Homo sapiens hypothetical gene supported by AK124096 (LOC399923), mR Homo sapiens SH3 multiple domains 3 (SH3MD3), mRNA
7.III_0/400/	Tioms supreme of to manaple domains a (or isivida), mixiva

XM 374909	Homo sapiens similar to hypothetical protein (LOC399925), mRNA
XM_374911	Homo sapiens similar to ribosomal protein S12 (LOC399927), mRNA
XM_374912	Homo sapiens X-ray radiation resistance associated 1 (XRRA1), mRNA
XM 374915	Homo sapiens hypothetical protein LOC283219 (LOC283219), mRNA
XM 374917	Homo sapiens similar to tripartite motif-containing 51 (LOC399937), mRNA
XM_374919	Homo sapiens similar to tripartite motif protein 48; TRIM48 (LOC399939), mF
XM 374920	Homo sapiens similar to tripartite motif-containing 51 (LOC399940), mRNA
XM_374922	Homo sapiens KIAA1731 protein (KIAA1731), mRNA
XM 374927	Homo sapiens KIAA1377 protein (KIAA1377), mRNA
XM_374930	Homo sapiens similar to expressed sequence Al593442 (LOC399947), mRN
XM 374932	Homo sapiens hypothetical gene supported by AB096245 (LOC399948), mR
XM_374933	Homo sapiens similar to RIKEN cDNA 4833427G06 (LOC399949), mRNA
XM 374936	Homo sapiens KIAA1052 protein (KIAA1052), mRNA
XM 374937	Homo sapiens hypothetical gene supported by AK127233 (LOC399957), mR
XM_374944	Homo sapiens similar to LVLF3112 (LOC399967), mRNA
XM 374945	Homo sapiens similar to Seminal vesicle protein 7 precursor (SVS VII) (Caltri
XM_374948	Homo sapiens similar to LINE-1 REVERSE TRANSCRIPTASE HOMOLOG (I
XM_374949	Homo sapiens similar to Sorting nexin 19 (LOC399979), mRNA
XM 374952	Homo sapiens hypothetical gene supported by AK126822 (LOC399990), mR
XM 374959	Homo sapiens similar to DDX11 protein (LOC399999), mRNA
XM 374965	Homo sapiens similar to BC004636 protein (LOC400010), mRNA
XM 374967	Homo sapiens similar to carboxyl-terminal modulator protein isoform a (LOC
XM 374972	Homo sapiens similar to MUC19 (LOC400023), mRNA
XM_374973	Homo sapiens similar to hypothetical protein (L1H 3 region) - human (LOC40
XM 374976	Homo sapiens hypothetical protein LOC283331 (LOC283331), mRNA
XM 374981	Homo sapiens similar to DKFZP564K247 protein (LOC400038), mRNA
XM 374982	Homo sapiens similar to oriLyt TD-element binding protein 7 (LOC400040), n
XM_374983	Homo sapiens KIAA0748 gene product (KIAA0748), mRNA
XM 374985	Homo sapiens KIAA0352 gene product (KIAA0352), mRNA
XM_374987	Homo sapiens similar to 60S ribosomal protein L26 (LOC400055), mRNA
XM_374989	Homo sapiens KIAA0373 gene product (KIAA0373), mRNA
XM_374995	Homo sapiens similar to ribosomal protein L18a; 60S ribosomal protein L18a
XM_374996	Homo sapiens AMP-activated protein kinase family member 5 (ARK5), mRN/
XM_374997	Homo sapiens hypothetical gene supported by AK097461; BC046185 (LOC4
XM_374999	Homo sapiens hypothetical gene supported by AK124947 (LOC400077), mR
XM_375000	Homo sapiens KIAA1853 protein (KIAA1853), mRNA
XM_375004	Homo sapiens similar to Dynein heavy chain at 89D CG1842-PA (LOC40008
XM_375005	Homo sapiens similar to Dynein heavy chain at 89D CG1842-PA (LOC40008
XM_375007	Homo sapiens hypothetical gene supported by AK123815 (LOC400093), mR
XM_375013	Homo sapiens hypothetical gene supported by AK127292; AK128225 (LOC4
XM_375018	Homo sapiens hypothetical gene supported by AK092066 (LOC400121), mR
XM_375023	Homo sapiens hypothetical gene supported by AJ412041 (LOC400132), mR
XM_375027	Homo sapiens hypothetical protein LOC283491 (LOC283491), mRNA
XM_375029	Homo sapiens hypothetical protein LOC338862 (LOC338862), mRNA
XM_375031	Homo sapiens hypothetical gene supported by AK093158 (LOC400145), mR
XM_375032	Homo sapiens TBC1 domain family, member 4 (TBC1D4), mRNA
XM_375033	Homo sapiens hypothetical protein LOC144776 (LOC144776), mRNA
XM_375035	Homo sapiens similar to 40S ribosomal protein S26 (LOC400156), mRNA
XM_375038	Homo sapiens hypothetical gene supported by AK129953 (LOC400165), mR
XM_375039	Homo sapiens similar to LRRGT00052 (LOC400169), mRNA
XM_375041	Homo sapiens similar to CLL-associated antigen KW-1 splice variant 1 (LOC
XM_375042	Homo sapiens DKFZP434B061 protein (DKFZP434B061), mRNA
XM_375045	Homo sapiens chromosome 14 open reading frame 92 (C14orf92), mRNA
XM_375065	Homo sapiens zinc finger protein 409 (ZNF409), mRNA
XM_375067	Homo sapiens similar to peroxisomal short-chain alcohol dehydrogenase; N/
XM_375074	Homo sapiens KIAA0391 (KIAA0391), mRNA
XM_375075	Homo sapiens similar to STELLA (LOC400206), mRNA

XM_375076	Homo sapiens hypothetical gene supported by AK124214 (LOC400207), mR
XM_375077	Homo sapiens chromosome 14 open reading frame 25 (C14orf25), mRNA
XM_375078	Homo sapiens similar to small acidic protein; small acidic protein sid2057p (l
XM_375080	Homo sapiens KIAA0831 (KIAA0831), mRNA
XM_375081	Homo sapiens hypothetical gene supported by BX248296 (LOC400214), mR
XM 375084	Homo sapiens similar to hypothetical protein (LOC400219), mRNA
XM_375085	Homo sapiens KIAA1393 (KIAA1393), mRNA
XM 375086	Homo sapiens zinc finger and BTB domain containing 1 (ZBTB1), mRNA
XM 375087	Homo sapiens pleckstrin homology domain containing, family H (with MyTH4
XM_375088	Homo sapiens hypothetical gene supported by AK097098 (LOC400223), mR
XM_375090	
	Homo sapiens similar to pleckstrin homology domain protein (5V327) (LOC4)
XM_375099	Homo sapiens hypothetical protein LOC283585 (LOC283585), mRNA
XM_375101	Homo sapiens similar to RIKEN cDNA 0610010D24 (LOC400239), mRNA
XM_375105	Homo sapiens KIAA0329 (KIAA0329), mRNA
XM_375108	Homo sapiens similar to RIKEN cDNA A530016L24 gene (LOC400258), mRI
XM_375145	Homo sapiens similar to breast cancer antigen NY-BR-1 (LOC400296), mRN
XM_375147	Homo sapiens similar to breast cancer anti-estrogen resistance 1; Crk-assoc
XM_375148	Homo sapiens similar to Ribosome biogenesis protein BMS1 homolog (LOC4
XM_375150	Homo sapiens similar to protein kinase CHK2 isoform b; checkpoint-like protein
XM_375152	Homo sapiens similar to hypothetical protein (LOC400304), mRNA
XM_375153	Homo sapiens hypothetical protein DKFZp547L112 (DKFZP547L112), mRN/
XM_375154	Homo sapiens similar to KIAA0125 (LOC400309), mRNA
XM_375157	Homo sapiens similar to Ribosome biogenesis protein BMS1 homolog (LOC-
XM_375163	Homo sapiens similar to hypothetical protein FLJ36144 (LOC400320), mRN/
XM_375165	Homo sapiens hypothetical protein DKFZp434P162 (LOC390535), mRNA
XM_375170	Homo sapiens similar to KIAA1971 protein (LOC400336), mRNA
XM_375171	Homo sapiens DKFZP434L187 protein (DKFZP434L187), mRNA
XM_375174	Homo sapiens hypothetical gene supported by BC037839 (LOC400340), mR
XM_375176	Homo sapiens similar to RIKEN cDNA 6530401L14 gene (LOC400342), mRI
XM_375178	Homo sapiens similar to hect domain and RLD 2 (LOC400344), mRNA
XM_375179	Homo sapiens similar to hect domain and RLD 2 (LOC400345), mRNA
XM_375181	Homo sapiens KIAA1018 protein (KIAA1018), mRNA
XM_375183	Homo sapiens hypothetical gene supported by BC037839 (LOC400353), mR
XM_375185	Homo sapiens formin (limb deformity) (FMN), mRNA
XM_375187	Homo sapiens nuclear protein in testis (NUT), mRNA
XM_375190	Homo sapiens hypothetical gene supported by AK093014 (LOC400359), mR
XM_375191	Homo sapiens hypothetical gene supported by BX647708 (LOC400360), mR
XM_375196	Homo sapiens similar to KIAA0377 gene product (LOC400367), mRNA
XM_375200	Homo sapiens similar to ubiquitin specific proteinase 50 (LOC400372), mRN
XM_375203	Homo sapiens hypothetical gene supported by AK126787 (LOC400376), mR
XM_375207	Homo sapiens similar to RIKEN cDNA 1110004B15 (LOC400380), mRNA
XM_375209	Homo sapiens likely ortholog of mouse klotho lactase-phlorizin hydrolase rela
XM_375210	Homo sapiens similar to zinc finger and BTB domain containing 8; BTB/POZ
XM_375224	Homo sapiens similar to cervical cancer suppressor-1 (LOC400410), mRNA
XM_375226	Homo sapiens similar to FLJ40113 protein (LOC400414), mRNA
XM_375228	Homo sapiens similar to RIKEN cDNA 3010021M21 (LOC400416), mRNA
XM_375230	Homo sapiens similar to KIAA1920 protein (LOC400418), mRNA
XM_375235	Homo sapiens similar to hypothetical protein FLJ22795 (LOC400423), mRN/
XM_375239	Homo sapiens similar to KIAA1920 protein (LOC400428), mRNA
XM_375240	Homo sapiens similar to hypothetical protein FLJ22795 (LOC400429), mRN/
XM_375242	Homo sapiens similar to golgi autoantigen golgin subfamily a2-like (LOC4004
XM_375243	Homo sapiens KIAA1920 protein (KIAA1920), mRNA
XM_375246	Homo sapiens similar to hypothetical protein DKFZp434I1020 (LOC400435),
XM_375247	Homo sapiens KIAA0211 gene product (KIAA0211), mRNA
XM_375248	Homo sapiens similar to KIAA1920 protein (LOC400436), mRNA
XM_375249	Homo sapiens similar to hypothetical protein FLJ22795 (LOC400437), mRN/
XM_375252	Homo sapiens LOC400442 (LOC400442), mRNA

XM 375260	Homo sapiens hypothetical gene supported by AK075564; BC060873 (LOC4
XM 375261	Homo sapiens similar to Nonhistone chromosomal protein HMG-14 (High-mc
XM_375263	Homo sapiens similar to IFMQ9370 (LOC400454), mRNA
XM 375266	Homo sapiens LOC400461 (LOC400461), mRNA
XM 375268	Homo sapiens similar to RIKEN cDNA 3010021M21 (LOC400464), mRNA
XM_375269	Homo sapiens similar to Dynamin-1 (D100) (Dynamin, brain) (B-dynamin) (Lt
XM_375272	Homo sapiens similar to hypothetical protein FLJ36144 (LOC400468), mRN/
XM_375274	Homo sapiens similar to solute carrier family 22 member 4; organic cation tra
XM_375274 XM_375275	Homo sapiens similar to hypothetical protein FLJ22795 (LOC400472), mRN/
XM_375276	Homo sapiens similar to KIAA1920 protein (LOC400473), mRNA
XM_375277	Homo sapiens similar to FLJ40113 protein (LOC400477), mRNA
XM_375280	Homo sapiens similar to KIAA1920 protein (LOC400478), mRNA
XM_375282	Homo sapiens similar to DDX11 protein (LOC400479), mRNA
XM_375284	Homo sapiens similar to interleukin 9 receptor (LOC400481), mRNA
XM_375284 XM_375288	Homo sapiens hypothetical protein MGC24381 (MGC24381), mRNA
XM_375292	Homo sapiens similar to hypothetical protein (LOC400492), mRNA
XM_375298	Homo sapiens KIAA1987 protein (KIAA1987), mRNA
XM_375302	Homo sapiens hypothetical gene supported by AK126539 (LOC400499), mR
XM_375305	Homo sapiens similar to TSG118.1 protein (LOC400506), mRNA
XM_375306	Homo sapiens similar to hypothetical protein FLJ20581 (LOC400507), mRN/
XM_375300	Homo sapiens similar to hypothetical protein (LOC400508), mRNA
XM_375307	Homo sapiens similar to FLJ12363 protein (LOC400509), mRNA
XM_375313	Homo sapiens hypothetical protein MGC9515 (MGC9515), mRNA
XM_375316	Homo sapiens hypothetical protein LOC283887 (LOC283887), mRNA
XM_375319	Homo sapiens similar to nuclear pore complex interacting protein (LOC4005'
XM_375320	Homo sapiens similar to apolipoprotein B48 receptor (LOC400514), mRNA
XM_375325	Homo sapiens similar to nuclear pore complex interacting protein (LOC4005)
XM_375330	Homo sapiens similar to MGC9515 protein (LOC400520), mRNA
XM_375331	Homo sapiens similar to PI-3-kinase-related kinase SMG-1 isoform 1; lambda
XM_375333	Homo sapiens hypothetical protein FLJ25404 (FLJ25404), mRNA
XM_375334	Homo sapiens hypothetical protein LOC283901 (LOC283901), mRNA
XM_375341	Homo sapiens similar to Ig heavy chain - human (fragment) (LOC400524), m
XM_375344	Homo sapiens similar to hypothetical protein (LOC400526), mRNA
XM_375349	Homo sapiens similar to protein phosphatase 2A 48 kDa regulatory subunit is
XM 375351	Homo sapiens similar to KIAA1501 protein (LOC400529), mRNA
XM_375352	Homo sapiens similar to KIAA1501 protein (LOC400530), mRNA
XM_375353	Homo sapiens hypothetical protein LOC146481 (LOC146481), mRNA
XM 375355	Homo sapiens Nedd4 binding protein 1 (N4BP1), mRNA
XM 375357	Homo sapiens similar to hypothetical protein (LOC400537), mRNA
XM_375358	Homo sapiens hypothetical protein FLJ25339 (FLJ25339), mRNA
XM_375359	Homo sapiens brain expressed, associated with Nedd4 (BEAN), mRNA
XM 375360	Homo sapiens hypothetical gene supported by AK130753 (LOC400539), mR
XM_375362	Homo sapiens solute carrier family 7 (cationic amino acid transporter, y+ sys
XM_375363	Homo sapiens similar to PI-3-kinase-related kinase SMG-1 isoform 2; lambda
XM 375364	Homo sapiens similar to PI-3-kinase-related kinase SMG-1 isoform 2; lambda
XM 375369	Homo sapiens similar to LHPE306 (LOC400546), mRNA
XM_375373	Homo sapiens similar to LOC93426 protein (LOC400547), mRNA
XM_375375	Homo sapiens KIAA0431 protein (KIAA0431), mRNA
XM_375376	Homo sapiens KIAA0703 gene product (KIAA0703), mRNA
XM_375377	Homo sapiens KIAA0513 gene product (KIAA0513), mRNA
XM_375378	Homo sapiens similar to hypothetical protein (LOC400549), mRNA
XM_375379	Homo sapiens hypothetical gene supported by AK127438 (LOC400555), mR
XM_375383	Homo sapiens hypothetical gene supported by AK126695 (LOC400559), mR
XM_375384	Homo sapiens similar to AFG3(ATPase family gene 3)-like 1 (LOC400563), r
XM_375386	Homo sapiens similar to bA476l15.3 (novel protein similar to septin) (LOC40
XM_375387	Homo sapiens hypothetical gene supported by AK128660 (LOC400566), mR
XM_375392	Homo sapiens similar to HSPC296 (LOC400569), mRNA

XM_375397	Homo sapiens KIAA0753 gene product (KIAA0753), mRNA
XM_375399	
XM_375404	Homo sapiens hypothetical protein LOC146850 (LOC146850), mRNA
XM_375408	Homo sapiens KIAA0672 gene product (KIAA0672), mRNA
XM_375410	Homo sapiens hypothetical gene supported by AK123100 (LOC400574), mR
XM_375412	Homo saplens hypothetical gene supported by AK127731 (LOC400576), mR
XM_375418	Homo sapiens similar to GRB2-related adaptor protein (LOC400581), mRNA
XM_375423	Homo sapiens similar to RIKEN cDNA 0610013E23 (LOC400585), mRNA
XM_375424	Homo sapiens similar to stearoyl-CoA desaturase; acyl-CoA desaturase; fatt
XM_375426	Homo sapiens similar to 60S ribosomal protein L21 (LOC400587), mRNA
XM_375430	Homo sapiens hypothetical protein LOC201229 (LOC201229), mRNA
XM_375434	Homo sapiens similar to Very hypothetical protein (LOC400590), mRNA
XM_375436	Homo sapiens hypothetical gene supported by AK126768 (LOC400591), mR
XM_375438	Homo sapiens similar to Hypothetical protein KIAA0563 (LOC400594), mRN,
XM_375439	Homo sapiens similar to TBC1 domain family member 3 (Rab GTPase-active
XM 375443	Homo sapiens hypothetical protein LOC284100 (LOC284100), mRNA
XM_375446	Homo sapiens hypothetical protein FLJ11822 (FLJ11822), mRNA
XM_375449	Homo sapiens hypothetical protein LOC284106 (LOC284106), mRNA
XM_375452	Homo sapiens similar to keratin associated protein 9.2 (LOC400596), mRNA
XM 375453	Homo sapiens similar to RIKEN cDNA B830010L13 gene (LOC400597), mRI
XM_375456	Homo sapiens hypothetical protein DKFZp761G2113 (DKFZp761G2113), mF
XM 375469	Homo sapiens ProSAPiP2 protein (ProSAPiP2), mRNA
XM 375471	Homo sapiens KIAA0924 protein (KIAA0924), mRNA
XM 375475	Homo sapiens hypothetical gene supported by AK126318 (LOC400608), mR
XM_375478	Homo sapiens similar to RIKEN cDNA 1100001G20 (LOC400610), mRNA
XM_375482	Homo sapiens similar to U5 snRNP-specific protein, 200 kDa; U5 snRNP-spe
XM 375484	Homo sapiens similar to adapter protein 162 (LOC400615), mRNA
XM_375485	Homo sapiens helicase with zinc finger domain (HELZ), mRNA
XM_375491	Homo sapiens similar to FTO protein (LOC400622), mRNA
XM_375492	Homo sapiens similar to Ammd protein (LOC400625), mRNA
XM_375494	Homo sapiens hypothetical gene supported by AK127919 (LOC400627), mR
XM_375495	Homo sapiens apoptosis-associated tyrosine kinase (AATK), mRNA
XM 375496	Homo sapiens similar to FLJ00403 protein (LOC400628), mRNA
XM_375500	Homo sapiens similar to RIKEN cDNA 3110023B02 (MGC16597), mRNA
XM_375502	Homo sapiens similar to RIKEN cDNA 4921530G04 (LOC400629), mRNA
XM_375511	Homo sapiens similar to TBC1 domain family member 3 (Rab GTPase-active
XM_375514	Homo sapiens similar to pyrroline-5-carboxylate reductase 1 isoform 2; P5C
XM_375516	Homo sapiens hypothetical protein LOC284121 (LOC284121), mRNA
XM_375517	Homo sapiens similar to prolyl 4-hydroxylase, beta subunit; v-erb-a avian ery
XM_375520	Homo sapiens similar to HSPC214 (LOC400637), mRNA
XM_375527	Homo sapiens hypothetical protein LOC339290 (LOC339290), mRNA
XM_375537	Homo sapiens similar to thiopurine methyltransferase (LOC400650), mRNA
XM_375543	Homo sapiens similar to 40S ribosomal protein S3a (LOC400652), mRNA
XM_375544	Homo sapiens hypothetical gene supported by AK126293 (LOC400658), mR
XM_375545	Homo sapiens hypothetical gene supported by AK126829 (LOC400661), mR
XM_375548	Homo sapiens similar to bA476I15.3 (novel protein similar to septin) (LOC40)
XM_375549	Homo sapiens similar to hypothetical protein LOC349114 (LOC400664), mRI
XM_375550	Homo sapiens similar to Protein Sck (LOC400665), mRNA
XM_375551	Homo sapiens hypothetical gene supported by AK127589 (LOC400666), mR
XM_375552	Homo sapiens similar to GLGL782 (LOC400668), mRNA
XM_375553	Homo sapiens KIAA0963 (KIAA0963), mRNA
XM_375557	Homo sapiens NY-REN-24 antigen (NY-REN-24), mRNA
XM_375558	Homo sapiens KIAA1881 (KIAA1881), mRNA
XM_375559	Homo sapiens scaffold attachment factor B2 (SAFB2), mRNA
XM_375560	Homo sapiens similar to expressed sequence Al662250 (LOC400673), mRN
XM_375563	Homo sapiens hypothetical protein FLJ38149 (FLJ38149), mRNA
XM_375568	Homo sapiens ZFP-36 for a zinc finger protein (HSZFP36), mRNA
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XM_375569	Homo sapiens hypothetical protein DKFZp434I1610 (DKFZp434I1610), mRN
XM_375575	Homo sapiens similar to hypothetical protein (LOC400677), mRNA
XM_375583	Homo sapiens hypothetical gene supported by AK128109 (LOC400679), mR
XM_375589	Homo sapiens hypothetical gene supported by BC041864 (LOC400681), mR
XM_375590	Homo sapiens similar to zinc finger protein 100; zinc finger protein 100 (Y1) (
XM_375593	Homo sapiens zinc finger protein 536 (ZNF536), mRNA
XM_375594	Homo sapiens zinc finger protein 507 (ZNF507), mRNA
XM_375599	Homo sapiens hypothetical protein FLJ21369 (FLJ21369), mRNA
XM_375602	Homo sapiens hypothetical gene supported by AK055260 (LOC400687), mR
XM_375603	Homo sapiens similar to comment for location 3447-3655 BLASTX gi 103290
XM_375604	Homo saplens similar to Hypothetical zinc finger protein KIAA1559 (LOC400)
XM 375606	Homo sapiens hypothetical protein DKFZp779O175 (DKFZp779O175), mRN
XM_375608	Homo sapiens similar to hypothetical protein (LOC400692), mRNA
XM_375609	Homo sapiens similar to Hypothetical zinc finger protein KIAA0961 (LOC400)
XM_375614	Homo sapiens similar to Placental protein 13-like (Charcot-Leyden crystal pro
XM 375618	Homo sapiens similar to pregnancy-specific beta-1 glycoprotein C1 - human
XM_375619	Homo sapiens similar to polycythemia rubra vera 1; cell surface receptor (LO
XM_375629	Homo sapiens hypothetical gene DKFZp434J0226 (DKFZp434J0226), mRN/
XM_375631	Homo sapiens hypothetical gene supported by AK124070 (LOC400707), mR
XM 375632	Homo sapiens similar to Serine/threonine protein phosphatase 5 (PP5) (Prot
XM_375633	Homo sapiens solute carrier family 8 (sodium-calcium exchanger), member 2
XM_375634	Homo sapiens similar to sialic acid binding Ig-like lectin 11; sialic acid-binding
XM 375638	Homo sapiens similar to zinc finger protein 534; KRAB domain only 3 (LOC4)
XM_375639	Homo sapiens similar to zinc finger protein KR-ZNF1 (LOC400714), mRNA
XM_375640	Homo sapiens similar to hypothetical protein MGC48625 (LOC400715), mRN
XM_375646	Homo sapiens zinc finger protein 525 (ZNF525), mRNA
XM_375651	Homo sapiens KIAA1115 (KIAA1115), mRNA
XM_375654	Homo sapiens hypothetical protein FLJ35258 (FLJ35258), mRNA
XM_375655	Homo sapiens similar to hypothetical protein A430110N23 (LOC400717), mF
XM_375656	Homo sapiens similar to hypothetical protein A430110N23 (LOC400718), mF
XM_375658	Homo sapiens hypothetical gene supported by AK123294 (LOC400719), mR
XM_375660	Homo sapiens zinc finger protein 264 (ZNF264), mRNA
XM_375663	Homo sapiens similar to hypothetical protein FLJ23506 (LOC400720), mRN/
XM_375664	Homo sapiens similar to KIAA2003 protein (LOC400721), mRNA
XM_375665	Homo sapiens hypothetical protein BC012365 (LOC116412), mRNA
XM_375667	Homo sapiens similar to bA476l15.3 (novel protein similar to septin) (LOC40
XM_375668	Homo sapiens hypothetical gene supported by AK093729; AK128780; BX64
XM_375669	Homo sapiens similar to 60S ribosomal protein L23a (LOC400725), mRNA
XM_375670	Homo sapiens hypothetical gene supported by AK093729; BC062355; BX64
XM_375671	Homo sapiens similar to bA476l15.3 (novel protein similar to septin) (LOC40
XM_375678	Homo sapiens similar to KIAA1751 protein (LOC400731), mRNA
XM_375681	Homo sapiens KIAA0495 (KIAA0495), mRNA
XM_375682	Homo sapiens glycine-, glutamate-, thienylcyclohexylpiperidine-binding prote
XM_375684	Homo sapiens hairy and enhancer of split (Drosophila) homolog 2 (HES2), m
XM_375685	Homo sapiens KIAA0469 gene product (KIAA0469), mRNA
XM_375687	Homo sapiens similar to RIKEN cDNA F730108M23 gene (LOC400734), mR
XM_375688	Homo sapiens similar to hypothetical protein (LOC400736), mRNA
XM_375690	Homo sapiens similar to RIKEN cDNA 9030409G11 (LOC400737), mRNA
XM_375695	Homo sapiens hypothetical protein LOC126917 (LOC126917), mRNA
XM_375696	Homo sapiens similar to ribosomal protein S14 (LOC400744), mRNA
XM_375697	Homo sapiens KIAA0459 protein (KIAA0459), mRNA
XM_375698	Homo sapiens hypothetical gene supported by AK124869 (LOC400745), mR
XM_375700	Homo sapiens similar to Hypothetical protein BC005730 (LOC400746), mRN
XM_375707	Homo sapiens hypothetical gene supported by AK054768 (LOC400747), mR
XM_375712	Homo sapiens syndecan 3 (N-syndecan) (SDC3), mRNA
XM_375713	Homo sapiens hypothetical protein LOC284551 (LOC284551), mRNA
XM_375714	Homo sapiens similar to RIKEN cDNA 1700025K23 (LOC400749), mRNA

XM_375718	Homo sapiens inositol polyphosphate-5-phosphatase, 75kDa (INPP5B), mRt
XM_375720	Homo sapiens regulating synaptic membrane exocytosis 3 (RIMS3), mRNA
XM_375726	Homo sapiens KIAA0494 gene product (KIAA0494), mRNA
XM_375729	Homo sapiens chromosome 1 open reading frame 34 (C1orf34), mRNA
XM_375732	Homo sapiens similar to Retrovirus-related Pol polyprotein from transposon 2
XM_375737	Homo sapiens DnaJ (Hsp40) homolog, subfamily C, member 6 (DNAJC6), m
XM_375738	Homo sapiens hypothetical gene supported by BC047053 (LOC400757), mR
XM_375744	Homo sapiens hypothetical protein LOC339524 (LOC339524), mRNA
XM_375746	Homo sapiens similar to Interferon-induced guanylate-binding protein 1 (GTF
XM_375747	Homo sapiens similar to Interferon-induced guanylate-binding protein 1 (GTF
XM_375753	Homo sapiens hypothetical gene supported by AK092728 (LOC400765), mR
XM 375754	Homo sapiens hypothetical protein LOC163404 (LOC163404), mRNA
XM_375756	Homo sapiens similar to Stromal cell derived factor receptor 2 (LOC400766),
XM_375761	Homo sapiens similar to Matrin 3 (LOC400767), mRNA
XM_375762	Homo sapiens netrin G1 (NTNG1), mRNA
XM_375770	Homo sapiens leucine-rich repeats and immunoglobulin-like domains 2 (LRIC
XM 375774	Homo sapiens similar to hypothetical protein DKFZp434A171 (LOC400773),
XM 375775	Homo sapiens similar to embigin (LOC400774), mRNA
XM_375779	Homo sapiens similar to hypothetical protein AE2 (LOC400776), mRNA
XM 375783	Homo sapiens hypothetical protein LOC149013 (LOC149013), mRNA
XM_375785	Homo sapiens similar to autoantigen La (LOC400779), mRNA
XM 375802	Homo sapiens hypothetical gene supported by BC014333 (LOC400784), mR
XM_375803	Homo sapiens similar to putative UST1-like organic anion transporter (LOC4)
XM_375806	Homo sapiens KIAA0476 gene product (KIAA0476), mRNA
XM_375809	Homo sapiens hypothetical protein LOC126669 (LOC126669), mRNA
XM 375810	Homo sapiens similar to glucocerebrosidase (LOC400787), mRNA
XM_375811	Homo sapiens similar to misato (LOC400788), mRNA
XM_375812	Homo sapiens KIAA0907 protein (KIAA0907), mRNA
XM_375814	Homo sapiens similar to LINE-1 REVERSE TRANSCRIPTASE HOMOLOG (I
XM_375816	Homo sapiens similar to Slamf7 protein (LOC400792), mRNA
XM 375821	Homo sapiens hypothetical gene supported by AK128015 (LOC400799), mR
XM_375825	Homo sapiens kinesin family member 14 (KIF14), mRNA
XM_375833	Homo sapiens hypothetical protein LOC284581 (LOC284581), mRNA
XM_375834	Homo sapiens inhibitor of kappa light polypeptide gene enhancer in B-cells, I
XM_375837	Homo sapiens KIAA0205 gene product (KIAA0205), mRNA
XM_375838	Homo sapiens hypothetical protein LOC128387 (LOC128387), mRNA
XM_375841	Homo sapiens hypothetical gene supported by AK128488 (LOC400804), mR
XM_375842	Homo sapiens similar to hypothetical protein LOC349114 (LOC400805), mRI
XM_375843	Homo sapiens similar to hypothetical protein FLJ25976 (LOC400806), mRN/
XM_375845	Homo sapiens similar to bA476l15.3 (novel protein similar to septin) (LOC40
XM_375846	Homo sapiens similar to hypothetical protein FLJ25976 (LOC400808), mRN/
XM_375848	Homo sapiens KIAA0792 gene product (KIAA0792), mRNA
XM_375849	Homo sapiens similar to Hypothetical protein CBG08611 (LOC400809), mRN
XM_375850	Homo sapiens similar to Ferritin heavy chain (Ferritin H subunit) (LOC400810
XM_375851	Homo sapiens KIAA0133 gene product (KIAA0133), mRNA
XM_375853	Homo sapiens protein BAP28 (FLJ10359), mRNA
XM_375856	Homo sapiens similar to bA476I15.3 (novel protein similar to septin) (LOC40
XM_375863	Homo sapiens similar to 60S ribosomal protein L23a (LOC400814), mRNA
XM_375865	Homo sapiens similar to BC002216 protein (LOC400815), mRNA
XM_375869	Homo sapiens similar to LOC375080 protein (LOC400818), mRNA
XM_375873	Homo sapiens similar to KIAA0447 protein (LOC400820), mRNA
XM_375875	Homo sapiens similar to hypothetical protein LOC349114 (LOC400821), mRI
XM_375876	Homo sapiens similar to hypothetical protein FLJ25976 (LOC400822), mRN/
XM_375882	Homo sapiens similar to chromosome 14 open reading frame 24 (LOC40082
XM_375885	Homo sapiens similar to C219-reactive peptide (LOC400824), mRNA
XM_375887	Homo sapiens similar to Calcyclin (Prolactin receptor associated protein) (PF
XM_375897	Homo sapiens similar to AG1 (LOC400826), mRNA

XM_375899	Homo sapiens similar to Ba1-651 (LOC400827), mRNA
XM_375902	Homo sapiens similar to beta-defensin 32 precursor (LOC400830), mRNA
XM_375904	Homo sapiens similar to RIKEN cDNA 4933425O20 (LOC400833), mRNA
XM_375911	Homo sapiens KIAA0186 gene product (KIAA0186), mRNA
XM_375912	Homo sapiens similar to hypothetical protein FLJ38374 (LOC400840), mRN/
XM_375914	Homo sapiens similar to dJ1184F4.4 (novel protein similar to nucleolar prote
XM_375917	Homo sapiens hypothetical protein LOC149692 (LOC149692), mRNA
XM_375922	Homo sapiens similar to Protein C20orf85 (LOC400848), mRNA
XM 375925	Homo sapiens similar to cyclin-like F-box (3A784) (LOC400854), mRNA
XM 375928	Homo sapiens similar to hypothetical protein MGC30156 (LOC400855), mRN
XM_375929	Homo sapiens hypothetical gene supported by AK123815 (LOC400856), mR
XM 375930	Homo sapiens similar to PRED3 (LOC400857), mRNA
XM_375931	Homo sapiens similar to PRED4 (LOC400858), mRNA
XM 375934	Homo sapiens similar to LINE-1 REVERSE TRANSCRIPTASE HOMOLOG (I
XM 375935	Homo sapiens hypothetical protein LOC284825 (LOC284825), mRNA
XM_375936	Homo sapiens chaperonin containing TCP1, subunit 8 (theta) (CCT8), mRNA
XM_375930	Homo sapiens hypothetical gene supported by AK127082 (LOC400867), mR
XM_375946	Homo sapiens hypothetical gene supported by AK127002 (LOC400878), mR
XM_375948	Homo sapiens similar to Serine/threonine-protein kinase Nek2 (NimA-related
	· · · · · · · · · · · · · · · · · · ·
XM_375951 XM_375953	Homo sapiens similar to Gene with similarity to rat kidney-specific (KS) gene Homo sapiens hypothetical gene supported by AK129567; NM_201401 (LOC
XM_375954	Homo sapiens similar to LOC284861 protein (LOC400887), mRNA
XM_375955	Homo sapiens similar to immunoglobulin superfamily, member 3; immunoglo
XM_375958	Homo sapiens similar to infinitionoglobulin superfamily, member 3, i
XM_375963	Homo sapiens similar to profine denydrogenase (oxidase) 1, profine oxidase Homo sapiens similar to hypothetical protein LOC145497 (LOC400891), mRI
XM_375964	Homo sapiens similar to hypothetical protein 200 143497 (200400897), miximum sapiens similar to breakpoint cluster region isoform 1 (LOC400892), m
XM_375965	Homo sapiens similar to Gamma-glutamyltranspeptidase 1 precursor (Gamm
XM_375966	Homo sapiens similar to Gariffa-glutariyitarispeptidase i precursor (Gariffa-Homo sapiens similar to immunoglobulin superfamily, member 3; immunoglo
XM_375993	Homo sapiens similar to immunoglobulin superfamily, member 3, immunogl
XM_375996	Homo sapiens similar to a putative protein with homology to a sequence betw Homo sapiens similar to Gamma-glutamyltransferase-like protein 4 (LOC400
XM_375997	Homo sapiens similar to Gariffa-glutarifyteral sterase-like protein 4 (LOC400918), m
XM_376001	Homo sapiens similar to breakpoint cluster region solonn (1000400910), in
XM_376003	Homo sapiens similar to low density inpoprotein receptor-related protein 3, low Homo sapiens hypothetical gene supported by AK056895 (LOC400924), mR
XM_376007	Homo sapiens KIAA0645 gene product (KIAA0645), mRNA
XM_376008	Homo sapiens hypothetical protein LOC91464 (LOC91464), mRNA
XM_376010	Homo sapiens similar to TPTE and PTEN homologous inositol lipid phosphat
XM_376013	Homo sapiens hypothetical protein LOC200321 (LOC200321), mRNA
XM_376018	Homo sapiens KIAA1644 protein (KIAA1644), mRNA
XM_376019	Homo sapiens similar to hypothetical protein (LOC400930), mRNA
XM_376020	Homo sapiens hypothetical gene supported by AK130875 (LOC400931), mR
XM_376021	Homo sapiens hypothetical gene supported by AK138136 (LOC400932), mR
XM_376021	Homo sapiens hypothetical gene supported by AK126356 (LOC400934), mR
XM_376023	Homo sapiens zinc finger, BED domain containing 4 (ZBED4), mRNA
XM_376024	Homo sapiens similar to interleukin 17 receptor E; EST AA589509 (LOC400§
XM_376031	Homo sapiens hypothetical gene supported by AK123041 (LOC400940), mR
XM_376031	Homo sapiens hypothetical gene supported by AK124409 (LOC400941), mR
XM_376033	Homo sapiens hypothetical protein LOC339789 (LOC339789), mRNA
XM_376034	Homo sapiens similar to AILT5830 (LOC400943), mRNA
XM_376043	Homo sapiens similar to RIKEN cDNA 2310016E02 (LOC400948), mRNA
XM_376043	Homo sapiens SPTF-associated factor 65 gamma (STAF65(gamma)), mRN/
XM_376048	Homo sapiens similar to FKSG60 (LOC400949), mRNA
XM_376049	Homo sapiens hypothetical gene supported by AK124893 (LOC400950), mR
XM_376051	Homo sapiens similar to NGNL6975 (LOC400952), mRNA
XM_376056	Homo sapiens similar to echinoderm microtubule associated protein like 5 (L
XM_376059	Homo sapiens SERTA domain containing 2 (SERTAD2), mRNA
XM_376060	Homo sapiens KIAA0053 gene product (KIAA0053), mRNA
XM_376062	Homo sapiens similar to KIAA1155 protein (LOC400961), mRNA
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XM_376068	Homo sapiens similar to LP3727 (LOC400962), mRNA
XM_376072	Homo sapiens hypothetical gene supported by AK098018 (LOC400965), mR
XM_376073	Homo sapiens similar to Ig kappa variable region (LOC400967), mRNA
XM_376074	Homo sapiens LOC400968 (LOC400968), mRNA
XM_376094	Homo sapiens hypothetical protein LOC90499 (LOC90499), mRNA
XM_376097	Homo sapiens similar to seven transmembrane helix receptor (LOC400984),
XM_376099	Homo sapiens similar to Glycerol-3-phosphate acyltransferase, mitochondria
XM_376100	Homo sapiens similar to KIAA1641 protein (LOC400986), mRNA
XM 376101	Homo sapiens similar to LOC375251 protein (LOC400987), mRNA
XM_376106	Homo sapiens similar to RIKEN cDNA 6330578E17 (LOC400989), mRNA
XM_376108	Homo sapiens similar to Sodium/hydrogen exchanger 4 (Na(+)/H(+) exchang
XM_376111	Homo sapiens plasminogen-related protein A (LOC285189), mRNA
XM 376112	Homo sapiens similar to RAN-binding protein 2-like 1 isoform 1; sperm mem
XM 376117	Homo sapiens hypothetical gene supported by AK095987 (LOC400994), mR
XM 376118	Homo sapiens hypothetical gene supported by AK095987 (LOC400996), mR
XM_376121	Homo sapiens hypothetical gene supported by AK095987 (LOC400998), mR
XM 376125	Homo sapiens similar to Single-stranded DNA-binding protein, isoform b (LO
XM 376126	Homo sapiens similar to hypothetical protein A230046P18 (LOC401003), mF
XM_376127	Homo sapiens similar to pote protein; Expressed in prostate, ovary, testis, ar
XM_376130	Homo sapiens similar to pote protein; Expressed in prostate, ovary, testis, ar
XM 376139	Homo sapiens hypothetical gene supported by AK123815 (LOC401011), mR
XM 376141	Homo sapiens similar to zinc finger protein 285 (LOC401012), mRNA
XM_376142	Homo sapiens hypothetical gene supported by AK057980; AK092189 (LOC4
XM 376144	Homo sapiens hypothetical protein LOC339745 (LOC339745), mRNA
XM_376148	Homo sapiens similar to RIKEN cDNA 5830415L20 (LOC401015), mRNA
XM 376150	Homo sapiens similar to ribosomal protein S3a; 40S ribosomal protein S3a; \
XM_376154	Homo sapiens similar to ribosomal protein S15; rat insulinoma gene (LOC40
XM 376158	Homo sapiens hypothetical gene supported by AK126104; BX648733 (LOC4
XM_376160	Homo sapiens similar to CDNA sequence BC030440 (LOC401026), mRNA
XM_376161	Homo sapiens similar to IDS6411 (LOC401027), mRNA
XM_376162	Homo sapiens similar to Nucleophosmin 1 (LOC401028), mRNA
XM_376165	Homo sapiens similar to DAZ associated protein 2; deleted in azoospermia a
XM_376171	Homo sapiens KIAA1843 protein (KIAA1843), mRNA
XM_376172	Homo sapiens zinc finger protein 142 (clone pHZ-49) (ZNF142), mRNA
XM_376178	Homo sapiens thyroid hormone receptor interactor 12 (TRIP12), mRNA
XM_376179	Homo saplens LOC401034 (LOC401034), mRNA
XM_376180	Homo sapiens similar to archease (LOC401035), mRNA
XM_376185	Homo sapiens similar to ankyrin repeat and SOCS box-containing 18; SOCS
XM_376186	Homo sapiens similar to ankymin repeat and 3000 box-containing 16, 3000 Homo sapiens hypothetical protein LOC93463 (LOC93463), mRNA
XM_376189	Homo sapiens DKFZP586K1520 protein (DKFZP586K1520), mRNA
XM_376199	Homo sapiens by 2F 360K 1320 protein (Drt 2F 360K 1320), mrt 4A Homo sapiens hypothetical gene supported by AK125867 (LOC401039), mR
XM_376190	Homo sapiens hypothetical gene supported by AK123667 (LOC401039), ITR
XM_376193	Homo sapiens FERM, RhoGEF and pleckstrin domain protein 2 (FARP2), ml
XM_376195	Homo saplens hypothetical gene supported by AK123321 (LOC401045), mR
_	Homo sapiens similar to inhibitor of growth family, member 5 (LOC401047), I
XM_376200 XM_376201	Homo sapiens Smillar to inflibitor of growth family, member 3 (EOC40 1047), 1 Homo sapiens ER degradation enhancer, mannosidase alpha-like 1 (EDEM1
XM_376203	Homo sapiens KIAA0218 gene product (KIAA0218), mRNA
XM_376206	Homo sapiens hypothetical protein LOC285375 (LOC285375), mRNA
XM_376207	Homo sapiens similar to FLJ00274 protein (LOC401054), mRNA
XM_376209	Homo sapiens similar to Nonhistone chromosomal protein HMG-17 (High-mc
XM_376212	Homo sapiens hypothetical protein LOC339862 (LOC339862), mRNA
XM_376225	Homo sapiens similar to serine protease-like 1 (LOC401063), mRNA
XM_376227	Homo sapiens Mypothetical gene supported by AK097724 (LOC401064), mR
XM_376232	Homo sapiens Vpr-binding protein (VprBP), mRNA
XM_376233	Homo sapiens similar to hypothetical protein MGC39725 (LOC401067), mRN
XM_376238	Homo sapiens hypothetical protein LOC285331 (LOC285331), mRNA Homo sapiens similar to FtsJ homolog 2 isoform b; cell division protein FtsJ;
XM_376239	nomo sapiens similar to resumonog z isonomi b; celi division protein resu;

XM_376241	Homo sapiens hypothetical gene supported by AK125779 (LOC401070), mR
XM_376243	Homo sapiens hypothetical gene supported by AK125942 (LOC401072), mR
XM_376247	Homo sapiens similar to double homeobox protein (LOC401074), mRNA
XM_376248	Homo sapiens similar to zinc finger protein 39 (LOC401075), mRNA
XM_376249	Homo sapiens similar to CAP, adenylate cyclase-associated protein 1; adeny
XM 376254	Homo sapiens hypothetical protein DKFZp667G2110 (DKFZp667G2110), mF
XM_376256	Homo sapiens hypothetical gene supported by AK126064 (LOC401080), mR
XM_376257	Homo sapiens similar to hypothetical protein FLJ25976 (LOC401082), mRN/
XM 376258	Homo sapiens similar to Nuclear transcription factor Y subunit beta (NF-Y pro
XM_376267	Homo sapiens similar to hypothetical protein, MNCb-4779 (LOC401087), mR
XM_376268	Homo sapiens hypothetical gene supported by AK127796 (LOC401088), mR
XM_376269	Homo sapiens hypothetical gene supported by AK127796 (LOC401088), mR
XM_376278	Homo sapiens rigidar to DIVEN aDNA 0640037003 (LOC401005), mR
XM_376280	Homo sapiens similar to RIKEN cDNA 0610027B03 (LOC401095), mRNA
XM_376281	Homo sapiens hypothetical protein BC010062 (LOC152078), mRNA
XM 376284	Homo sapiens hypothetical gene supported by BC031660 (LOC401097), mR
_	Homo sapiens hypothetical protein BC011266 (LOC93556), mRNA
XM_376287	Homo sapiens hypothetical gene supported by AK128090 (LOC401100), mR
XM_376290	Homo sapiens hypothetical gene supported by AK124384 (LOC401105), mR
XM_376292	Homo sapiens hypothetical gene supported by AK129507 (LOC401109), mR
XM_376299	Homo sapiens hypothetical gene supported by AK093135 (LOC401114), mR
XM_376300	Homo sapiens hypothetical gene supported by AK124538 (LOC401116), mR
XM_376301	Homo sapiens similar to chromosome 11 open reading frame2; chromosome
XM_376303	Homo sapiens hypothetical protein LOC285484 (LOC285484), mRNA
XM_376305	Homo sapiens similar to deubiquitinating enzyme 3 (LOC401121), mRNA
XM_376306	Homo sapiens similar to hypothetical protein LOC169270 (LOC401122), mRI
XM_376307	Homo sapiens hypothetical protein DKFZp667E0512 (DKFZp667E0512), mF
XM_376309	Homo sapiens hypothetical protein LOC285540 (LOC285540), mRNA
XM_376310	Homo sapiens zinc finger, CCHC domain containing 4 (ZCCHC4), mRNA
XM_376312	Homo sapiens hypothetical gene supported by AK127623 (LOC401123), mR
XM_376314	Homo sapiens similar to TBC1 domain family member 1 (LOC401125), mRN
XM_376317 XM_376318	Homo sapiens similar to SNAG1 (LOC401130), mRNA
_	Homo sapiens similar to hypothetical protein FLJ30672 (LOC401132), mRN/
XM_376320 XM_376322	Homo sapiens similar to RIKEN cDNA 9930019B18 gene (LOC401136), mRI
XM_376323	Homo sapiens similar to hypothetical protein (LOC401137), mRNA
XM_376324	Homo sapiens similar to RSTI689 (LOC401138), mRNA
XM_376325	Homo sapiens similar to Ameloblastin precursor (LOC401139), mRNA
XM_376327	Homo sapiens hypothetical protein FLJ13105 (FLJ13105), mRNA
XM_376328	Homo sapiens similar to hypothetical protein LOC231503 (LOC401141), mRI
	Homo sapiens family with sequence similarity 13, member A1 (FAM13A1), m
XM_376331	Homo sapiens KIAA1680 protein (KIAA1680), mRNA
XM_376333 XM_376334	Homo sapiens similar to elongation factor 1 alpha (LOC401146), mRNA
XM_376338	Homo sapiens similar to hypothetical protein (LOC401147), mRNA
XM_376339	Homo sapiens hypothetical gene supported by AK127273 (LOC401150), mR
XM_376342	Homo sapiens similar to RIKEN cDNA 1810037117 (LOC401152), mRNA
XM_376347	Homo sapiens similar to bA291L22.2 (similar to CDC10 (cell division cycle 1)
XM_376348	Homo sapiens hypothetical gene supported by AK126441 (LOC401157), mR
XM 376349	Homo sapiens similar to hypothetical protein (L1H 3 region) - human (LOC40
	Homo sapiens hypothetical protein LOC201725 (LOC201725), mRNA
XM_376350 XM_376353	Homo sapiens PDZ domain containing guanine nucleotide exchange factor (
_	Homo sapiens similar to hypothetical protein FLJ20035 (LOC401160), mRN/
XM_376354 XM_376355	Homo sapiens similar to unactive progesterone receptor, 23 kD; likely orthold
XM 376364	Homo sapiens KIAA0626 gene product (KIAA0626), mRNA
XM_376365	Homo sapiens hypothetical gene supported by AK126844 (LOC401166), mR
XM_376366	Homo sapiens hypothetical protein BC014011 (LOC116349), mRNA
XM_376368	Homo sapiens DKFZP564I1171 protein (DKFZP564I1171), mRNA
XM_376370	Homo sapiens similar to Programmed cell death protein 6 (Probable calcium Homo sapiens hypothetical gene supported by AK090679 (LOC401172), mR
74W_070070	minor supports hypothetical gene supported by AN090679 (LOC401172), MR

XM_376371	Homo sapiens similar to hypothetical protein FLJ36144 (LOC401174), mRN/
XM_376372	Homo sapiens hypothetical protein LOC134121 (LOC134121), mRNA
XM_376376	Homo sapiens similar to SMA3 protein (LOC401179), mRNA
XM 376379	Homo sapiens similar to RIKEN cDNA 4921505C17 (LOC401183), mRNA
XM 376383	Homo sapiens similar to cAMP-specific phosphodiesterase PDE4D7 (LOC40
XM_376386	Homo sapiens similar to DNA segment, Chr 13, Brigham & Womens Genetic
XM 376387	Homo sapiens hypothetical gene supported by AK127903 (LOC401191), mR
XM 376389	Homo sapiens similar to small EDRK-rich factor 1A, telomeric; spinal muscul
XM 376391	Homo sapiens similar to psi neuronal apoptosis inhibitory protein (LOC40119
XM 376394	Homo sapiens hypothetical gene supported by AK130705 (LOC401195), mR
XM_376395	Homo sapiens similar to POM121 membrane glycoprotein-like 1 (LOC40119)
XM_376397	Homo sapiens hypothetical protein LOC153561 (LOC1 53561), mRNA
XM_376403	Homo sapiens similar to ribosomal protein L7-like 1 (LOC401197), mRNA
XM_376405	Homo sapiens Similar to noosoniar protein 17-like 1 (20040 1197), mRNA Homo sapiens Rho-guanine nucleotide exchange factor (RGNEF), mRNA
XM_376412	
_	Homo sapiens similar to KIAA0825 protein (LOC4012O2), mRNA
XM_376413	Homo sapiens hypothetical protein DKFZp564C0469 (DKFZp564C0469), mF
XM_376416	Homo sapiens similar to Beta-glucuronidase precursor (Beta-G1) (LOC4012)
XM_376419	Homo sapiens hypothetical protein LOC285638 (LOC285638), mRNA
XM_376420	Homo sapiens similar to 40S ribosomal protein S25 (LOC401206), mRNA
XM_376423	Homo sapiens hypothetical gene supported by AK126569 (LOC401207), mR
XM_376427	Homo sapiens LOC401208 (LOC401208), mRNA
XM_376428	Homo sapiens similar to HYPOTHETICAL PROTEIN ORF-1137 (LOC40120)
XM_376430	Homo sapiens similar to nuclear receptor coactivator 4; RET-activating gene
XM_376433	Homo sapiens hypothetical protein LOC153218 (LOC1 53218), mRNA
XM_376436	Homo sapiens hypothetical protein LOC134466 (LOC1 34466), mRNA
XM_376440	Homo sapiens hypothetical protein LOC285629 (LOC285629), mRNA
XM_376443	Homo sapiens hypothetical gene supported by AK097772 (LOC401217), mR
XM_376444	Homo sapiens hypothetical protein LOC133491 (LOC1 33491), mRNA
XM_376447	Homo sapiens similar to hypothetical protein (LOC401221), mRNA
XM_376453	Homo sapiens similar to KIAA0752 protein (LOC401223), mRNA
XM_376454	Homo sapiens similar to acetoacetyl-CoA synthetase; acetoacetate-CoA liga
XM_376458	Homo sapiens hypothetical gene supported by AK093729; AK128780; BX64
XM_376461	Homo sapiens similar to bA476l15.3 (novel protein similar to septin) (LOC40
XM_376463	Homo sapiens hypothetical protein MGC39372 (MGC39372), mRNA
XM_376464	Homo sapiens similar to HIV TAT specific factor 1; cofactor required for Tat a
XM_376469	Homo sapiens hypothetical gene supported by AK026805 (LOC401236), mR
XM_376471	Homo sapiens similar to chromosome 15 open reading frame 2 (LOC401238
XM_376472	Homo sapiens similar to KIAA0319 (LOC401239), mRNA
XM_376473	Homo sapiens similar to SMA3-like protein bA239L20.1 (LOC401240), mRN/
XM_376474	Homo sapiens integral membrane glycoprotein-like (LOC166994), mRNA
XM_376479	Homo sapiens mediator of DNA damage checkpoint 1 (MDC1), mRNA
XM_376480	Homo sapiens hypothetical gene supported by AK098O12 (LOC401247), mR
XM_376486	Homo sapiens similar to coiled-coil domain 1 protein precursor (LOC401250)
XM_376487	Homo sapiens similar to NG23 (LOC401251), mRNA
XM_376488	Homo sapiens hypothetical gene supported by AK123889 (LOC401252), mR
XM_376491	Homo sapiens hypothetical gene supported by AK125740 (LOC401253), mR
XM_376498	Homo sapiens similar to kinesin-related protein 3A (LOC401259), mRNA
XM_376499	Homo sapiens hypothetical gene supported by AK123643 (LOC401260), mR
XM_376503	Homo sapiens ectonucleotide pyrophosphatase/phosphodiesterase 4 (putativ
XM_376505	Homo sapiens similar to hypothetical protein FLJ30296 (LOC401263), mRN/
XM_376508	Homo sapiens hypothetical gene supported by AK091177 (LOC401265), mR
XM_376516	Homo sapiens myosin VI (MYO6), mRNA
XM_376518	Homo sapiens chromosome 6 open reading frame 84 (C6orf84), mRNA
XM_376519	Homo sapiens ankyrin repeat domain 6 (ANKRD6), mRNA
XM_376522	Homo sapiens similar to Heat shock protein 67B2 (LOC401270), mRNA
XM_376525	Homo sapiens zinc finger protein 450 (ZNF450), mRNA
XM_376527	Homo sapiens hypothetical gene supported by AK124171 (LOC401271), mR

XM_376532	Homo sapiens similar to KIAA0408 protein (LOC401272), mRNA
XM_376533	Homo sapiens similar to FLJ44670 protein (LOC401273), mRNA
XM_376535	Homo sapiens chromosome 6 open reading frame 207 (C6orf207), mRNA
XM_376536	Homo sapiens similar to hypothetical protein (LOC401274), mRNA
XM_376537	Homo sapiens BCL2-associated transcription factor 1 (BCLAF1), mRNA
XM 376540	Homo sapiens chromosome 6 open reading frame 56 (C6orf56), mRNA
XM_376541	Homo sapiens hypothetical gene supported by AK126903 (LOC401278), mR
XM 376547	Homo sapiens RNA binding motif protein 16 (RBM16), mRNA
XM 376549	Homo sapiens hypothetical gene supported by AK125637 (LOC401280), mR
XM 376550	Homo sapiens KIAA1423 (KIAA1423), mRNA
XM_376554	Homo sapiens similar to T-complex protein 10A homolog (LOC401285), mRt
XM_376555	Homo sapiens hypothetical gene supported by AK127120 (LOC401286), mR
XM_376556	Homo sapiens chromosome 6 open reading frame 70 (C6orf70), mRNA
XM_376557	Homo sapiens hypothetical gene supported by AK056013 (LOC401288), mR
XM 376558	Homo sapiens hypothetical gene supported by AK127120 (LOC401293), mR
XM 376560	Homo sapiens hypothetical gene supported by AK125637 (LOC401295), mR
XM 376564	Homo sapiens unc-84 homolog A (C. elegans) (UNC84A), mRNA
XM 376565	Homo sapiens hypothetical gene supported by BC031661 (LOC401298), mR
XM_376566	Homo sapiens hypothetical protein LOC285924 (LOC285924), mRNA
XM 376567	Homo sapiens KIAA1856 protein (KIAA1856), mRNA
XM_376568	Homo sapiens hypothetical gene supported by AK125308 (LOC401300), mR
XM_376569	Homo sapiens hypothetical gene supported by AK123535 (LOC401302), mR
XM_376571	Homo sapiens ubiquitin specific protease 42 (USP42), mRNA
XM_376573	Homo sapiens similar to beta-1,4-mannosyltransferase; beta-1,4 mannosyltra
XM_376575	Homo sapiens hypothetical gene supported by AK027125 (LOC401307), mR
XM_376576	Homo sapiens similar to Chain , Heat-Shock Cognate 70kd Protein (44kd Atr
XM_376577	Homo sapiens similar to heat shock 70kDa protein 8 isoform 2; heat shock co
XM_376578	Homo sapiens PHD finger protein 14 (PHF14), mRNA
XM_376585	Homo sapiens similar to Dual specificity protein kinase CLK2 (CDC like kinas
XM_376586	Homo sapiens similar to Hypothetical protein KIAA0087 (HA1002) (LOC4013
XM 376587	Homo sapiens similar to mKIAA0038 protein (LOC401316), mRNA
XM_376588	Homo sapiens KIAA0644 gene product (KIAA0644), mRNA
XM_376589	Homo sapiens KIAA0241 protein (KIAAO241), mRNA
XM_376590	Homo sapiens LOC89231 (LOC89231), mRNA
XM_376591	Homo sapiens similar to KIAA0877 protein (LOC401322), mRNA
XM_376593	Homo sapiens similar to RIKEN cDNA 9330128H10 gene (LOC401323), mR
XM_376595	Homo sapiens hypothetical gene supported by AF447883 (LOC401325), mR
XM_376597	Homo sapiens similar to sequence-specific single-stranded-DNA-binding pro
XM_376598	Homo sapiens similar to t-complex 1; T-complex locus TCP-1; t-complex 1 (a
XM_376600	Homo sapiens similar to RAS p21 protein activator 4; GTPase activating prot
XM_376602	Homo sapiens similar to Ras GTPase-activating protein 4 (RasGAP-activatin
XM_376604	Homo sapiens similar to cell division cycle 10 homolog (LOC401332), mRNA
XM_376605	Homo sapiens similar to hypothetical protein FLJ25976 (LOC401333), mRN/
XM_376607	Homo sapiens hypothetical gene supported by AK126096 (LOC401335), mR
XM_376609	Homo sapiens growth factor receptor-bound protein 10 (GRB10), mRNA
XM_376610	Homo sapiens hypothetical gene supported by AK097404; NM_198284 (LOC
XM_376611	Homo sapiens hypothetical gene supported by AK127870 (LOC401337), mR
XM_376612	Homo sapiens similar to SMT3 suppressor of mif two 3 homolog 2 (LOC4013
XM_376613	Homo sapiens similar to hypothetical protein DKFZp434F142 (LOC401341),
XM_376614	Homo sapiens LOC401350 (LOC401350), mRNA
XM_376615	Homo sapiens hypothetical gene supported by BC040831 (LOC401351), mR
XM_376616	Homo sapiens hypothetical gene supported by BC040831 (LOC401354), mR
XM_376617	Homo sapiens similar to BC060615 protein (LOC401355), mRNA
XM_376618	Homo sapiens similar to CAGL79 (LOC401356), mRNA
XM_376619	Homo sapiens similar to hypothetical protein LOC285908 (LOC401357), mRI
XM_376621	Homo sapiens similar to hypothetical protein FLJ25037 (LOC401360), mRN/
XM_376622	Homo sapiens similar to hypothetical protein MGC16733 similar to CG12113

XM_376623	Homo sapiens similar to MGC16733 protein (LOC401362), mRNA
XM_376625	Homo sapiens similar to hypothetical protein FLJ10900 (LOC401369), mRN/
XM 376626	Homo sapiens similar to Williams Beuren syndrome chromosome region 19 i
XM_376628	Homo sapiens similar to Neutrophil cytosol factor 1 (NCF-1) (Neutrophil NAD
XM_376629	Homo sapiens similar to transcription factor GTF2IRD2 (LOC401375), mRNA
XM_376630	Homo sapiens similar to Nuclear envelope pore membrane protein POM 121
XM_376631	Homo sapiens Williams Beuren syndrome chromosome region 24 (WBSCR2
XM 376636	Homo sapiens similar to PMS4 (LOC401378), mRNA
XM_376638	Homo sapiens similar to PMS4 (LOC401379), mRNA
XM_376639	Homo sapiens similar to Williams Beuren syndrome chromosome region 19 t
XM_376640	Homo sapiens similar to PMS4 homolog mismatch repair protein - human (Lt
XM_376642	Homo sapiens tripartite motif-containing 50B (TRIM50B), mRNA
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XM_376643	Homo sapiens similar to hypothetical protein LOC285908 (LOC401383), mRI
XM_376647	Homo sapiens sema domain, immunoglobulin domain (Ig), short basic doma
XM_376648	Homo sapiens similar to hypothetical protein 4932412H11 (LOC401387), mF
XM_376649	Homo sapiens hypothetical protein FLJ39885 (FLJ39885), mRNA
XM_376651	Homo sapiens hypothetical gene supported by AK124274 (LOC401388), mR
XM_376652	Homo sapiens distal-less homeo box 6 (DLX6), mRNA
XM_376653	Homo sapiens similar to chromosome 11 open reading frame2; chromosome
XM_376655	Homo sapiens similar to importin alpha 1b (LOC401391), mRNA
XM_376656	Homo sapiens hypothetical protein FLJ22037 (FLJ22037), mRNA
XM_376657	Homo sapiens hypothetical protein LOC285989 (LOC285989), mRNA
XM_376658	Homo sapiens similar to Zinc-alpha-2-glycoprotein precursor (Zn-alpha-2-gly
XM_376663	Homo sapiens similar to reverse transcriptase related protein (LOC401395),
XM_376664	Homo sapiens KIAA1218 protein (KIAA1218), mRNA
XM_376665	Homo sapiens hypothetical protein LOC286009 (LOC286009), mRNA
XM_376668	Homo sapiens similar to Serine/threonine-protein kinase tousled-like 2 (Tous
XM_376670	Homo sapiens similar to hypothetical protein FLJ25976 (LOC401402), mRN/
XM_376671	Homo sapiens coatomer protein complex, subunit gamma 2 (COPG2), mRN/
XM_376672	Homo sapiens similar to ribosomal protein S14 (LOC401404), mRNA
XM_376677	Homo sapiens hypothetical protein LOC155006 (LOC155006), mRNA
XM_376679	Homo sapiens hypothetical protein FLJ25778 (FLJ25778), mRNA
XM_376680	Homo sapiens KIAA1718 protein (KIAA1718), mRNA
XM_376681	Homo sapiens similar to RAB19, member RAS oncogene family (LOC40140)
XM_376683	Homo sapiens LCHN protein (LCHN), mRNA
XM_376684	Homo sapiens hypothetical protein LOC93432 (LOC93432), mRNA
XM_376707	Homo sapiens similar to KIAA0738 protein (LOC401426), mRNA
XM_376712	Homo sapiens FLJ43692 protein (FLJ43692), mRNA
XM_376713	Homo sapiens similar to Olfactory receptor 2A7 (LOC401427), mRNA
XM_376715	Homo sapiens similar to seven transmembrane helix receptor (LOC401428),
XM_376716	Homo sapiens similar to KIAA1285 protein (LOC401429), mRNA
XM_376717	Homo sapiens likely ortholog of mouse zinc finger protein EZI (EZI), mRNA
XM_376718	Homo sapiens FLJ45737 protein (FLJ45737), mRNA
XM_376719	Homo sapiens similar to KIAA2036 protein (LOC401430), mRNA
XM_376720	Homo sapiens KIAA0543 protein (KIAA0543), mRNA
XM_376722	Homo sapiens hypothetical protein LOC155036 (LOC155036), mRNA
XM_376724	Homo sapiens KIAA1402 protein (CSGlcA-T), mRNA
XM_376725	Homo sapiens hypothetical gene supported by AK127717 (LOC401433), mR
XM_376727	Homo sapiens hypothetical protein LOC285888 (LOC285888), mRNA
XM_376728	Homo sapiens hypothetical protein LOC155435 (LOC155435), mRNA
XM_376730	Homo sapiens ubiquitin-protein isopeptide ligase (E3) (KIAA0010), mRNA
XM_376736	Homo sapiens similar to Hypothetical protein KIAA0711 (LOC401444), mRN/
XM_376741	Homo sapiens similar to ubiquitin-specific protease 17-like protein (LOC4014
XM_376746	Homo sapiens similar to seven transmembrane helix receptor (LOC401450),
XM_376750	Homo sapiens similar to chromosome 11 open reading frame2; chromosome
XM_376754	Homo sapiens similar to deubiquitinating enzyme 3 (LOC401453), mRNA
XM_376756	Homo sapiens similar to hypothetical protein SB153 isoform 1 (LOC401454),
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XM_376757	Homo sapiens similar to KIAA1456 protein (LOC401455), mRNA
XM_376761	Homo sapiens hypothetical gene supported by BC062364; BX647289 (LOC4
XM_376763	Homo sapiens similar to TRANSCRIPTION FACTOR COE2 (EARLY B-CELL
XM_376764	Homo sapiens paraneoplastic antigen MA2 (PNMA2), mRNA
XM_376771	Homo sapiens hypothetical gene supported by AK128232 (LOC401459), mR
XM_376774	Homo sapiens similar to hypothetical protein 4932417K07 (LOC401460), mR
XM_376776	Homo sapiens thymus high mobility group box protein TOX (TOX), mRNA
XM_376780	Homo sapiens similar to Myelin P2 protein (LOC401465), mRNA
XM_376781	Homo sapiens solute carrier family 10 (sodium/bile acid cotransporter family)
XM_376783	Homo sapiens hypothetical gene supported by BC055092 (LOC401466), mR
XM_376784	Homo sapiens similar to prot GOR (LOC401467), mRNA
XM_376785	Homo sapiens similar to NFS1 nitrogen fixation 1 isoform b precursor; cysteil
XM 376786	Homo sapiens similar to Ceruloplasmin precursor (Ferroxidase) (LOC401469
XM 376787	Homo sapiens similar to 40S ribosomal protein S26 (LOC401470), mRNA
XM 376791	Homo sapiens hypothetical gene supported by AK127183 (LOC401472), mR
XM_376793	Homo sapiens similar to RIKEN cDNA A830094I09 gene (LOC401474), mRN
XM 376795	Homo sapiens hypothetical gene supported by AK127771 (LOC401478), mR
XM_376797	Homo sapiens similar to KIAA0870 protein (LOC401479), mRNA
XM 376800	Homo sapiens similar to Hypothetical zinc finger protein KIAA0628 (LOC401
XM 376801	Homo sapiens hypothetical gene supported by AK091211; AK125852 (LOC4
XM_376809	Homo sapiens similar to bA110H4.2 (similar to membrane protein) (LOC401
XM 376810	Homo sapiens similar to dJ28I24.1.2 (Spinal Muscular Atrophy region (SMA3
XM 376814	Homo sapiens similar to DDX11 protein (LOC401487), mRNA
XM 376819	Homo sapiens similar to RIKEN cDNA 4933428I03 (LOC401494), mRNA
XM 376821	Homo sapiens chromosome 9 open reading frame 14 (C9orf14), mRNA
XM 376822	Homo sapiens similar to PRO2738 (LOC401497), mRNA
XM 376824	Homo sapiens similar to RIKEN cDNA A930001M12 gene (LOC401498), mF
XM 376829	Homo sapiens hypothetical protein LOC158381 (LOC158381), mRNA
XM 376830	Homo sapiens KIAA0258 (KIAA0258), mRNA
XM 376833	Homo sapiens LOC401505 (LOC401505), mRNA
XM 376838	Homo sapiens hypothetical gene supported by AK127145 (LOC401507), mR
XM_376840	Homo sapiens hypothetical gene supported by AK127145 (LOC401508), mR
XM 376841	Homo sapiens similar to DKFZP572C163 protein (LOC401509), mRNA
XM_376843	Homo sapiens similar to LOC286286 protein (LOC401510), mRNA
XM 376846	Homo sapiens similar to DKFZP572C163 protein (LOC401511), mRNA
XM_376847	Homo sapiens hypothetical gene supported by AK124538 (LOC401512), mR
XM 376848	Homo sapiens hypothetical gene supported by AK124538 (LOC401514), mR
XM 376850	Homo sapiens hypothetical gene supported by AK124122 (LOC401515), mR
XM_376852	Homo sapiens similar to bA251O17.3 (similar to aquaporin 7) (LOC401516),
XM_376855	Homo sapiens similar to keratinocyte growth factor-like protein, group III - hu
XM 376858	Homo sapiens similar to breast cancer antigen NY-BR-1 (LOC401519), mRN
XM 376861	Homo sapiens LOC401520 (LOC401520), mRNA
XM_376863	Homo sapiens similar to Keratinocyte growth factor precursor (KGF) (Fibrobla
XM_376866	Homo sapiens similar to bA251O17.3 (similar to aquaporin 7) (LOC401524),
XM_376869	Homo sapiens similar to tumor suppressor deleted in oral cancer-related 1 (L
XM 376872	Homo sapiens LOC401529 (LOC401529), mRNA
XM_376874	Homo sapiens chromosome 9 open reading frame 71 (C9orf71), mRNA
XM_376876	Homo sapiens similar to coiled-coil-helix-coiled-coil-helix domain containing :
XM_376880	Homo sapiens hypothetical gene supported by AK127390 (LOC401534), mR
XM 376885	Homo sapiens hypothetical gene supported by AK127445 (LOC401535), mR
XM_376888	Homo sapiens similar to Laminin receptor 1 (LOC401537), mRNA
XM_376890	
XM_376892	
XM_376895	· · · · · · · · · · · · · · · · · · ·
XM_376898	
XM 376899	
XM_376900	
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XM_376902	Homo sapiens similar to RIKEN cDNA 4732481H14 (LOC401548), mRNA
XM_376903	Homo sapiens KIAA0674 protein (KIAA0674), mRNA
XM_376905	Homo sapiens EGF-like-domain, multiple 5 (EGFL5), mRNA
XM_376909	Homo sapiens similar to hypothetical protein FLJ25955 (LOC401551), mRN/
XM_376917	Homo sapiens far upstream element (FUSE) binding protein 3 (FUBP3), mRI
XM_376921	Homo sapiens hypothetical protein MGC43306 (MGC43306), mRNA
XM_376924	Homo sapiens chromosome 9 open reading frame 62 (C9orf62), mRNA
XM_376925	Homo sapiens similar to DNL zinc finger (3D41) (LOC401560), mRNA
XM 376930	Homo sapiens hypothetical gene supported by AK127160 (LOC401562), mR
XM 376931	Homo sapiens hypothetical gene supported by AK093587; AK124899 (LOC4
XM_376939	Homo sapiens similar to 4931415M17 protein (LOC401565), mRNA
XM_376947	Homo sapiens similar to surfeit 5 isoform b; surfeit locus protein 5 (LOC4015
XM 376949	Homo sapiens similar to Surfeit locus protein 4 (LOC401567), mRNA
XM_376950	Homo sapiens similar to MGC43306 protein (LOC401568), mRNA
XM 376960	Homo sapiens similar to RIKEN cDNA 2900002H16 (LOC401569), mRNA
XM 376965	Homo sapiens LOC401570 (LOC401570), mRNA
XM 376968	Homo sapiens hypothetical gene supported by AK124122 (LOC401572), mR
XM_376978	Homo sapiens similar to hypothetical protein FLJ33610 (LOC401576), mRN/
XM_376981	Homo sapiens similar to hypothetical protein (L1H 3 region) - human (LOC4C
XM 376986	Homo sapiens similar to Syntenin 1 (Syndecan binding protein 1) (Melanoma
XM 376989	Homo sapiens similar to dJ54B20.4 (novel KRAB box containing C2H2 type :
XM 377000	Homo sapiens hypothetical gene supported by AK096379 (LOC401589), mR
XM 377002	Homo sapiens hypothetical gene supported by AK096379 (LOC401590), mR
XM 377012	Homo sapiens similar to Spindlin-like protein 2 (SPIN-2) (LOC401591), mRN
XM 377014	Homo sapiens Cdc42 guanine nucleotide exchange factor (GEF) 9 (ARHGEF
XM_377018	Homo sapiens LOC401594 (LOC401594), mRNA
XM_377019	Homo sapiens LOC401595 (LOC401595), mRNA
XM 377024	Homo sapiens similar to adaptor-related protein complex 2, beta 1 subunit; a
XM_377025	Homo sapiens similar to adaptor-related protein complex 2, beta 1 subunit; b
XM 377026	Homo sapiens similar to adaptor-related protein complex 2, beta 1 subunit; b
XM 377027	Homo sapiens similar to heat shock 70kD protein binding protein; progestero
XM 377028	Homo sapiens similar to histone acetyltransferase (LOC401606), mRNA
XM 377031	Homo sapiens similar to nuclear RNA export factor 2; TAP like protein 2 (LO
XM_377032	Homo sapiens G protein-coupled receptor-associated sorting protein (GASP)
XM 377033	Homo sapiens similar to STELLA (LOC401611), mRNA
XM_377034	Homo sapiens similar to mitochondrial carrier triple repeat 1 (LOC401612), n
XM 377041	Homo sapiens similar to hypothetical protein MGC15416 (LOC401618), mRN
XM_377053	Homo sapiens hypothetical gene supported by BC040297 (LOC401619), mR
XM 377060	Homo sapiens hypothetical protein LOC203547 (LOC203547), mRNA
XM_377062	Homo sapiens similar to LINE-1 REVERSE TRANSCRIPTASE HOMOLOG (I
XM_377071	Homo sapiens similar to LINE-1 REVERSE TRANSCRIPTASE HOMOLOG (I
XM_377072	Homo sapiens similar to LINE-1 REVERSE TRANSCRIPTASE HOMOLOG (I
XM 377073	Homo sapiens similar to CXYorf1-related protein (LOC401624), mRNA
XM_377076	Homo sapiens hypothetical gene supported by AK097803; BC017239 (LOC4
XM 377087	Homo sapiens similar to hypothetical protein FLJ33610 (LOC401627), mRN/
XM_377097	Homo sapiens similar to RNA binding motif protein, Y-linked, family 1 (LOC4)
XM_377098	Homo sapiens similar to Transcript Y 6 protein (LOC401633), mRNA
XM 377102	Homo sapiens LOC401634 (LOC401634), mRNA
XM_377104	Homo sapiens LOC401635 (LOC401635), mRNA
XM_377109	Homo sapiens similar to 40S ribosomal protein SA (P40) (34/67 kDa laminin
XM_377110	Homo sapiens similar to peptidylprolyl isomerase A (cyclophilin A) (LOC4016
XM_377115	Homo sapiens similar to PRED65 (LOC401641), mRNA
XM_377117	Homo sapiens similar to bA182L21.1 (novel protein similar to hypothetical pn
XM_377122	Homo sapiens similar to Guanine nucleotide-binding protein G(i), alpha-2 sul
XM_377129	Homo sapiens similar to golgi autoantigen, golgin subfamily a, 7 (LOC40164)
XM_377133	Homo sapiens similar to deleted in malignant brain tumors 1; crp-ductin; vom
XM_377136	Homo sapiens similar to double homeobox protein (LOC401650), mRNA
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XM_377137	Homo sapiens similar to double homeobox protein (LOC401651), mRNA
XM_377140	Homo sapiens similar to double homeobox protein (LOC401652), mRNA
XM_377142	Homo sapiens similar to double homeobox protein (LOC401653), mRNA
XM_377143	Homo sapiens similar to double homeobox protein (LOC401654), mRNA
XM_377147	Homo sapiens similar to RIKEN cDNA 1500011L16 (LOC401660), mRNA
XM 377154	Homo sapiens similar to seven transmembrane helix receptor (LOC401661),
XM_377155	Homo sapiens similar to Olfactory receptor 51H1 (LOC401663), mRNA
XM_377156	Homo sapiens similar to Olfactory receptor 51T1 (LOC401665), mRNA
XM 377158	Homo sapiens similar to Olfactory receptor 51A4 (LOC401666), mRNA
XM 377159	Homo sapiens similar to Olfactory receptor 51A2 (LOC401667), mRNA
XM_377179	Homo sapiens similar to seven transmembrane helix receptor (LOC401675),
XM_377185	Homo sapiens similar to filamin-binding LIM protein-1; migfilin (LOC401679),
XM_377189	Homo sapiens similar to Metabotropic glutamate receptor 5 precursor (mGlul
XM_377109 XM_377200	Homo sapiens similar to seven transmembrane helix receptor (LOC401687),
XM_377218	
_	Homo sapiens similar to MGC15937 protein (LOC401694), mRNA
XM_377222	Homo sapiens similar to seven transmembrane helix receptor (LOC401696),
XM_377230	Homo sapiens similar to U2af1 protein (LOC401703), mRNA
XM_377231	Homo sapiens similar to heterogeneous nuclear ribonucleoprotein C isoform
XM_377240	Homo sapiens similar to peptidylprolyl isomerase A (cyclophilin A) (LOC4017
XM_377259	Homo sapiens similar to S-phase kinase-associated protein 1A isoform a; org
XM_377262	Homo sapiens similar to Hypothetical protein CBG01854 (LOC401716), mRN
XM_377265	Homo sapiens similar to fidgetin (LOC401720), mRNA
XM_377278	Homo sapiens similar to ribosomal protein L6 (LOC401725), mRNA
XM_377283	Homo sapiens similar to Heat shock cognate 71 kDa protein (LOC401726), r
XM_377285	Homo sapiens similar to 60S ribosomal protein L11 (LOC401727), mRNA
XM_377287	Homo sapiens similar to MAL13P1.296 (LOC401728), mRNA
XM_377296	Homo sapiens similar to Hypothetical protein CBG23155 (LOC401732), mRN
XM 377305	Homo sapiens similar to Hypothetical protein CBG01089 (LOC401740), mRN
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XM_377306	Homo sapiens similar to vav-1 interacting Kruppel-like protein isoform b (LOC
XM_377337	Homo sapiens similar to vav-1 interacting Kruppel-like protein isoform b (LOC Homo sapiens similar to cerebellin (LOC401766), mRNA
XM_377337 XM_377338	Homo sapiens similar to vav-1 interacting Kruppel-like protein isoform b (LOC Homo sapiens similar to cerebellin (LOC401766), mRNA Homo sapiens KIAA0323 (KIAA0323), mRNA
XM_377337 XM_377338 XM_377343	Homo sapiens similar to vav-1 interacting Kruppel-like protein isoform b (LOC Homo sapiens similar to cerebellin (LOC401766), mRNA Homo sapiens KIAA0323 (KIAA0323), mRNA Homo sapiens similar to hypothetical protein DJ667H12.2 (LOC401778), mR
XM_377337 XM_377338 XM_377343 XM_377355	Homo sapiens similar to vav-1 interacting Kruppel-like protein isoform b (LOC Homo sapiens similar to cerebellin (LOC401766), mRNA Homo sapiens KIAA0323 (KIAA0323), mRNA Homo sapiens similar to hypothetical protein DJ667H12.2 (LOC401778), mR Homo sapiens KIAA0602 protein (KIAA0602), mRNA
XM_377337 XM_377338 XM_377343 XM_377355 XM_377369	Homo sapiens similar to vav-1 interacting Kruppel-like protein isoform b (LOC Homo sapiens similar to cerebellin (LOC401766), mRNA Homo sapiens KIAA0323 (KIAA0323), mRNA Homo sapiens similar to hypothetical protein DJ667H12.2 (LOC401778), mR Homo sapiens KIAA0602 protein (KIAA0602), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401806), mRNA
XM_377337 XM_377338 XM_377343 XM_377355 XM_377369 XM_377374	Homo sapiens similar to vav-1 interacting Kruppel-like protein isoform b (LOC Homo sapiens similar to cerebellin (LOC401766), mRNA Homo sapiens KIAA0323 (KIAA0323), mRNA Homo sapiens similar to hypothetical protein DJ667H12.2 (LOC401778), mR Homo sapiens KIAA0602 protein (KIAA0602), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401806), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401808), mRNA
XM_377337 XM_377338 XM_377343 XM_377355 XM_377369 XM_377374 XM_377376	Homo sapiens similar to vav-1 interacting Kruppel-like protein isoform b (LOC Homo sapiens similar to cerebellin (LOC401766), mRNA Homo sapiens KIAA0323 (KIAA0323), mRNA Homo sapiens similar to hypothetical protein DJ667H12.2 (LOC401778), mR Homo sapiens KIAA0602 protein (KIAA0602), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401806), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401808), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401811), mRNA
XM_377337 XM_377338 XM_377343 XM_377355 XM_377369 XM_377374 XM_377376 XM_377377	Homo sapiens similar to vav-1 interacting Kruppel-like protein isoform b (LOC Homo sapiens similar to cerebellin (LOC401766), mRNA Homo sapiens KIAA0323 (KIAA0323), mRNA Homo sapiens similar to hypothetical protein DJ667H12.2 (LOC401778), mR Homo sapiens KIAA0602 protein (KIAA0602), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401806), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401808), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401811), mRNA Homo sapiens similar to LRRGT00052 (LOC401812), mRNA
XM_377337 XM_377338 XM_377343 XM_377355 XM_377369 XM_377374 XM_377376 XM_377377 XM_377383	Homo sapiens similar to vav-1 interacting Kruppel-like protein isoform b (LOC Homo sapiens similar to cerebellin (LOC401766), mRNA Homo sapiens KIAA0323 (KIAA0323), mRNA Homo sapiens similar to hypothetical protein DJ667H12.2 (LOC401778), mR Homo sapiens KIAA0602 protein (KIAA0602), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401806), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401808), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401811), mRNA Homo sapiens similar to LRRGT00052 (LOC401812), mRNA Homo sapiens similar to stereocilin (LOC401815), mRNA
XM_377337 XM_377338 XM_377343 XM_377355 XM_377369 XM_377374 XM_377376 XM_377377 XM_377383 XM_377388	Homo sapiens similar to vav-1 interacting Kruppel-like protein isoform b (LOC Homo sapiens similar to cerebellin (LOC401766), mRNA Homo sapiens KIAA0323 (KIAA0323), mRNA Homo sapiens similar to hypothetical protein DJ667H12.2 (LOC401778), mR Homo sapiens KIAA0602 protein (KIAA0602), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401806), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401808), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401811), mRNA Homo sapiens similar to the transfer of the transfer
XM_377337 XM_377338 XM_377343 XM_377355 XM_377369 XM_377374 XM_377376 XM_377377 XM_377383 XM_377388 XM_377390	Homo sapiens similar to vav-1 interacting Kruppel-like protein isoform b (LOC Homo sapiens similar to cerebellin (LOC401766), mRNA Homo sapiens KIAA0323 (KIAA0323), mRNA Homo sapiens similar to hypothetical protein DJ667H12.2 (LOC401778), mR Homo sapiens KIAA0602 protein (KIAA0602), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401806), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401808), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401811), mRNA Homo sapiens similar to LRRGT00052 (LOC401812), mRNA Homo sapiens similar to antigen Cs44 (LOC401819), mRNA Homo sapiens similar to LOC375757 protein (LOC401820), mRNA
XM_377337 XM_377338 XM_377343 XM_377355 XM_377369 XM_377374 XM_377377 XM_377377 XM_377383 XM_377388 XM_377390 XM_377394	Homo sapiens similar to vav-1 interacting Kruppel-like protein isoform b (LOC Homo sapiens similar to cerebellin (LOC401766), mRNA Homo sapiens KIAA0323 (KIAA0323), mRNA Homo sapiens similar to hypothetical protein DJ667H12.2 (LOC401778), mR Homo sapiens KIAA0602 protein (KIAA0602), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401806), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401808), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401811), mRNA Homo sapiens similar to LRRGT00052 (LOC401812), mRNA Homo sapiens similar to stereocilin (LOC401815), mRNA Homo sapiens similar to antigen Cs44 (LOC401820), mRNA Homo sapiens similar to melanoma chondroitin sulfate proteoglycan (LOC40
XM_377337 XM_377338 XM_377343 XM_377355 XM_377369 XM_377374 XM_377377 XM_377377 XM_377383 XM_377388 XM_377390 XM_377394 XM_377395	Homo sapiens similar to vav-1 interacting Kruppel-like protein isoform b (LOC Homo sapiens similar to cerebellin (LOC401766), mRNA Homo sapiens KIAA0323 (KIAA0323), mRNA Homo sapiens similar to hypothetical protein DJ667H12.2 (LOC401778), mR Homo sapiens KIAA0602 protein (KIAA0602), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401806), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401808), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401811), mRNA Homo sapiens similar to LRRGT00052 (LOC401812), mRNA Homo sapiens similar to stereocilin (LOC401815), mRNA Homo sapiens similar to antigen Cs44 (LOC401819), mRNA Homo sapiens similar to melanoma chondroitin sulfate proteoglycan (LOC40 Homo sapiens similar to MKI67 (FHA domain) interacting nucleolar phosphol
XM_377337 XM_377338 XM_377343 XM_377355 XM_377369 XM_377374 XM_377377 XM_377383 XM_377388 XM_377390 XM_377394 XM_377395 XM_377407	Homo sapiens similar to vav-1 interacting Kruppel-like protein isoform b (LOC Homo sapiens similar to cerebellin (LOC401766), mRNA Homo sapiens KIAA0323 (KIAA0323), mRNA Homo sapiens similar to hypothetical protein DJ667H12.2 (LOC401778), mR Homo sapiens KIAA0602 protein (KIAA0602), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401806), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401808), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401811), mRNA Homo sapiens similar to LRRGT00052 (LOC401812), mRNA Homo sapiens similar to stereocilin (LOC401815), mRNA Homo sapiens similar to antigen Cs44 (LOC401819), mRNA Homo sapiens similar to LOC375757 protein (LOC401820), mRNA Homo sapiens similar to melanoma chondroitin sulfate proteoglycan (LOC40 Homo sapiens similar to MKI67 (FHA domain) interacting nucleolar phosphol Homo sapiens similar to hypothetical protein 4732467B22 (LOC401827), mR
XM_377337 XM_377338 XM_377343 XM_377355 XM_377369 XM_377374 XM_377377 XM_377377 XM_377383 XM_377388 XM_377390 XM_377394 XM_377395 XM_377407 XM_377408	Homo sapiens similar to vav-1 interacting Kruppel-like protein isoform b (LOC Homo sapiens similar to cerebellin (LOC401766), mRNA Homo sapiens KIAA0323 (KIAA0323), mRNA Homo sapiens similar to hypothetical protein DJ667H12.2 (LOC401778), mR Homo sapiens KIAA0602 protein (KIAA0602), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401806), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401808), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401811), mRNA Homo sapiens similar to LRRGT00052 (LOC401812), mRNA Homo sapiens similar to stereocilin (LOC401815), mRNA Homo sapiens similar to antigen Cs44 (LOC401819), mRNA Homo sapiens similar to LOC375757 protein (LOC401820), mRNA Homo sapiens similar to melanoma chondroitin sulfate proteoglycan (LOC40 Homo sapiens similar to MKI67 (FHA domain) interacting nucleolar phosphol Homo sapiens similar to hypothetical protein 4732467B22 (LOC401827), mR Homo sapiens similar to mast cell protease-11 (LOC401828), mRNA
XM_377337 XM_377338 XM_377355 XM_377369 XM_377374 XM_377376 XM_377377 XM_377383 XM_377388 XM_377390 XM_377394 XM_377395 XM_377407 XM_377408 XM_377412	Homo sapiens similar to vav-1 interacting Kruppel-like protein isoform b (LOC Homo sapiens similar to cerebellin (LOC401766), mRNA Homo sapiens KIAA0323 (KIAA0323), mRNA Homo sapiens similar to hypothetical protein DJ667H12.2 (LOC401778), mR Homo sapiens KIAA0602 protein (KIAA0602), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401806), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401808), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401811), mRNA Homo sapiens similar to LRRGT00052 (LOC401812), mRNA Homo sapiens similar to stereocilin (LOC401815), mRNA Homo sapiens similar to antigen Cs44 (LOC401819), mRNA Homo sapiens similar to LOC375757 protein (LOC401820), mRNA Homo sapiens similar to melanoma chondroitin sulfate proteoglycan (LOC40 Homo sapiens similar to MKI67 (FHA domain) interacting nucleolar phosphol Homo sapiens similar to mast cell protease-11 (LOC401828), mRNA Homo sapiens similar to mast cell protease-11 (LOC401828), mRNA Homo sapiens similar to 3-phosphoinositide dependent protein kinase-1 (hPI
XM_377337 XM_377338 XM_377355 XM_377369 XM_377376 XM_377377 XM_377377 XM_377383 XM_377388 XM_377390 XM_377394 XM_377395 XM_377407 XM_377408 XM_377412 XM_377414	Homo sapiens similar to vav-1 interacting Kruppel-like protein isoform b (LOC Homo sapiens similar to cerebellin (LOC401766), mRNA Homo sapiens KIAA0323 (KIAA0323), mRNA Homo sapiens similar to hypothetical protein DJ667H12.2 (LOC401778), mR Homo sapiens KIAA0602 protein (KIAA0602), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401806), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401808), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401811), mRNA Homo sapiens similar to LRRGT00052 (LOC401812), mRNA Homo sapiens similar to stereocilin (LOC401815), mRNA Homo sapiens similar to antigen Cs44 (LOC401819), mRNA Homo sapiens similar to LOC375757 protein (LOC401820), mRNA Homo sapiens similar to melanoma chondroitin sulfate proteoglycan (LOC40 Homo sapiens similar to MKI67 (FHA domain) interacting nucleolar phosphol Homo sapiens similar to mast cell protease-11 (LOC401828), mRNA Homo sapiens similar to a-phosphoinositide dependent protein kinase-1 (hPI Homo sapiens similar to Group X secretory phospholipase A2 precursor (Pho
XM_377337 XM_377338 XM_377355 XM_377369 XM_377374 XM_377376 XM_377377 XM_377383 XM_377388 XM_377390 XM_377394 XM_377395 XM_377407 XM_377408 XM_377412 XM_377416	Homo sapiens similar to vav-1 interacting Kruppel-like protein isoform b (LOC Homo sapiens similar to cerebellin (LOC401766), mRNA Homo sapiens KIAA0323 (KIAA0323), mRNA Homo sapiens similar to hypothetical protein DJ667H12.2 (LOC401778), mR Homo sapiens KIAA0602 protein (KIAA0602), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401806), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401808), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401811), mRNA Homo sapiens similar to LRRGT00052 (LOC401812), mRNA Homo sapiens similar to stereocilin (LOC401815), mRNA Homo sapiens similar to antigen Cs44 (LOC401819), mRNA Homo sapiens similar to LOC375757 protein (LOC401820), mRNA Homo sapiens similar to melanoma chondroitin sulfate proteoglycan (LOC40 Homo sapiens similar to MKI67 (FHA domain) interacting nucleolar phosphol Homo sapiens similar to mast cell protease-11 (LOC401828), mRNA Homo sapiens similar to a-phosphoinositide dependent protein kinase-1 (hPI Homo sapiens similar to Group X secretory phospholipase A2 precursor (Pho Homo sapiens similar to hypothetical protein MGC33867 (LOC401833), mRN
XM_377337 XM_377338 XM_377355 XM_377369 XM_377376 XM_377377 XM_377377 XM_377383 XM_377390 XM_377394 XM_377395 XM_377407 XM_377408 XM_377412 XM_377416 XM_377416 XM_377420	Homo sapiens similar to vav-1 interacting Kruppel-like protein isoform b (LOC Homo sapiens similar to cerebellin (LOC401766), mRNA Homo sapiens KIAA0323 (KIAA0323), mRNA Homo sapiens similar to hypothetical protein DJ667H12.2 (LOC401778), mR Homo sapiens KIAA0602 protein (KIAA0602), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401806), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401808), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401811), mRNA Homo sapiens similar to LRRGT00052 (LOC401812), mRNA Homo sapiens similar to stereocilin (LOC401815), mRNA Homo sapiens similar to antigen Cs44 (LOC401819), mRNA Homo sapiens similar to LOC375757 protein (LOC401820), mRNA Homo sapiens similar to melanoma chondroitin sulfate proteoglycan (LOC40 Homo sapiens similar to MKI67 (FHA domain) interacting nucleolar phosphol Homo sapiens similar to mast cell protease-11 (LOC401828), mRNA Homo sapiens similar to 3-phosphoinositide dependent protein kinase-1 (hPI Homo sapiens similar to Group X secretory phospholipase A2 precursor (Pho Homo sapiens similar to hypothetical protein MGC33867 (LOC401833), mRN Homo sapiens similar to hypothetical protein BC011981 (LOC401837), mRN Homo sapiens similar to hypothetical protein BC011981 (LOC401837), mRN
XM_377337 XM_377338 XM_377355 XM_377369 XM_377376 XM_377377 XM_377383 XM_377388 XM_377390 XM_377394 XM_377395 XM_377407 XM_377408 XM_377412 XM_377412 XM_377416 XM_377420 XM_377423	Homo sapiens similar to vav-1 interacting Kruppel-like protein isoform b (LOC Homo sapiens similar to cerebellin (LOC401766), mRNA Homo sapiens KIAA0323 (KIAA0323), mRNA Homo sapiens similar to hypothetical protein DJ667H12.2 (LOC401778), mR Homo sapiens KIAA0602 protein (KIAA0602), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401806), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401808), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401811), mRNA Homo sapiens similar to LRRGT00052 (LOC401812), mRNA Homo sapiens similar to stereocilin (LOC401815), mRNA Homo sapiens similar to antigen Cs44 (LOC401819), mRNA Homo sapiens similar to LOC375757 protein (LOC401820), mRNA Homo sapiens similar to melanoma chondroitin sulfate proteoglycan (LOC40 Homo sapiens similar to MKI67 (FHA domain) interacting nucleolar phosphol Homo sapiens similar to hypothetical protein 4732467B22 (LOC401827), mR Homo sapiens similar to a-phosphoinositide dependent protein kinase-1 (hPI Homo sapiens similar to Group X secretory phospholipase A2 precursor (Phothomo sapiens similar to hypothetical protein MGC33867 (LOC401833), mRN Homo sapiens similar to hypothetical protein BC011981 (LOC401837), mRN Homo sapiens similar to Immunoglobulin heavy chain (LOC401841), mRNA
XM_377337 XM_377338 XM_377355 XM_377369 XM_377376 XM_377377 XM_377383 XM_377388 XM_377390 XM_377394 XM_377395 XM_377407 XM_377407 XM_377412 XM_377416 XM_377420 XM_377423 XM_377423 XM_377424	Homo sapiens similar to vav-1 interacting Kruppel-like protein isoform b (LOC Homo sapiens similar to cerebellin (LOC401766), mRNA Homo sapiens KIAA0323 (KIAA0323), mRNA Homo sapiens similar to hypothetical protein DJ667H12.2 (LOC401778), mR Homo sapiens KIAA0602 protein (KIAA0602), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401806), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401808), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401811), mRNA Homo sapiens similar to LRRGT00052 (LOC401812), mRNA Homo sapiens similar to stereocilin (LOC401815), mRNA Homo sapiens similar to antigen Cs44 (LOC401819), mRNA Homo sapiens similar to LOC375757 protein (LOC401820), mRNA Homo sapiens similar to melanoma chondroitin sulfate proteoglycan (LOC40 Homo sapiens similar to MKI67 (FHA domain) interacting nucleolar phosphol Homo sapiens similar to hypothetical protein 4732467B22 (LOC401827), mR Homo sapiens similar to a-phosphoinositide dependent protein kinase-1 (hPI Homo sapiens similar to Group X secretory phospholipase A2 precursor (Phomo sapiens similar to hypothetical protein MGC33867 (LOC401833), mRN Homo sapiens similar to hypothetical protein BC011981 (LOC401837), mRN Homo sapiens similar to Immunoglobulin heavy chain (LOC401842), mRNA Homo sapiens similar to Immunoglobulin heavy chain (LOC401842), mRNA
XM_377337 XM_377338 XM_377343 XM_377355 XM_377369 XM_377376 XM_377377 XM_377383 XM_377388 XM_377390 XM_377394 XM_377395 XM_377407 XM_377407 XM_377412 XM_377416 XM_377420 XM_377423 XM_377424 XM_377425	Homo sapiens similar to vav-1 interacting Kruppel-like protein isoform b (LOC Homo sapiens similar to cerebellin (LOC401766), mRNA Homo sapiens KIAA0323 (KIAA0323), mRNA Homo sapiens similar to hypothetical protein DJ667H12.2 (LOC401778), mR Homo sapiens KIAA0602 protein (KIAA0602), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401806), mRN/Homo sapiens similar to hypothetical protein FLJ36144 (LOC401808), mRN/Homo sapiens similar to hypothetical protein FLJ36144 (LOC401811), mRN/Homo sapiens similar to LRRGT00052 (LOC401812), mRNA Homo sapiens similar to stereocilin (LOC401815), mRNA Homo sapiens similar to antigen Cs44 (LOC401819), mRNA Homo sapiens similar to LOC375757 protein (LOC401820), mRNA Homo sapiens similar to melanoma chondroitin sulfate proteoglycan (LOC40 Homo sapiens similar to MKI67 (FHA domain) interacting nucleolar phosphol Homo sapiens similar to hypothetical protein 4732467B22 (LOC401827), mR Homo sapiens similar to a-phosphoinositide dependent protein kinase-1 (hPI Homo sapiens similar to Group X secretory phospholipase A2 precursor (Phomo sapiens similar to hypothetical protein MGC33867 (LOC401833), mRN Homo sapiens similar to hypothetical protein BC011981 (LOC401837), mRN Homo sapiens similar to Immunoglobulin heavy chain (LOC401842), mRNA Homo sapiens similar to Ig H-chain V-region (DP-40) (LOC401842), mRNA Homo sapiens similar to protein kinase related to Raf protein kinases; Metho
XM_377337 XM_377338 XM_377343 XM_377355 XM_377369 XM_377376 XM_377377 XM_377383 XM_377388 XM_377390 XM_377394 XM_377407 XM_377407 XM_377412 XM_377416 XM_377416 XM_377420 XM_377423 XM_377425 XM_377425 XM_377426	Homo sapiens similar to vav-1 interacting Kruppel-like protein isoform b (LOC Homo sapiens similar to cerebellin (LOC401766), mRNA Homo sapiens KIAA0323 (KIAA0323), mRNA Homo sapiens similar to hypothetical protein DJ667H12.2 (LOC401778), mR Homo sapiens KIAA0602 protein (KIAA0602), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401806), mRN/Homo sapiens similar to hypothetical protein FLJ36144 (LOC401808), mRN/Homo sapiens similar to hypothetical protein FLJ36144 (LOC401811), mRN/Homo sapiens similar to LRRGT00052 (LOC401812), mRNA Homo sapiens similar to stereocilin (LOC401815), mRNA Homo sapiens similar to antigen Cs44 (LOC401819), mRNA Homo sapiens similar to LOC375757 protein (LOC401820), mRNA Homo sapiens similar to melanoma chondroitin sulfate proteoglycan (LOC40 Homo sapiens similar to MKI67 (FHA domain) interacting nucleolar phosphol Homo sapiens similar to hypothetical protein 4732467B22 (LOC401827), mR Homo sapiens similar to a-phosphoinositide dependent protein kinase-1 (hPI Homo sapiens similar to Group X secretory phospholipase A2 precursor (Phomo sapiens similar to hypothetical protein MGC33867 (LOC401833), mRN Homo sapiens similar to hypothetical protein BC011981 (LOC401837), mRN Homo sapiens similar to Immunoglobulin heavy chain (LOC401841), mRNA Homo sapiens similar to Ig H-chain V-region (DP-40) (LOC401842), mRNA Homo sapiens similar to IgH-chain V-region (DP-40) (LOC401842), mRNA Homo sapiens similar to IgHV gene product (LOC401845), mRNA
XM_377337 XM_377338 XM_377343 XM_377369 XM_377376 XM_377377 XM_377383 XM_377388 XM_377390 XM_377394 XM_377395 XM_377407 XM_377407 XM_377412 XM_377416 XM_377420 XM_377420 XM_377423 XM_377423 XM_377424 XM_377426 XM_377429	Homo sapiens similar to vav-1 interacting Kruppel-like protein isoform b (LOC Homo sapiens similar to cerebellin (LOC401766), mRNA Homo sapiens KIAA0323 (KIAA0323), mRNA Homo sapiens similar to hypothetical protein DJ667H12.2 (LOC401778), mR Homo sapiens similar to hypothetical protein FLJ36144 (LOC401806), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401806), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401808), mRNA Homo sapiens similar to LRRGT00052 (LOC401812), mRNA Homo sapiens similar to stereocilin (LOC401815), mRNA Homo sapiens similar to antigen Cs44 (LOC401819), mRNA Homo sapiens similar to LOC375757 protein (LOC401820), mRNA Homo sapiens similar to melanoma chondroitin sulfate proteoglycan (LOC40 Homo sapiens similar to MKI67 (FHA domain) interacting nucleolar phosphol Homo sapiens similar to hypothetical protein 4732467B22 (LOC401827), mR Homo sapiens similar to aphosphoinositide dependent protein kinase-1 (hPI Homo sapiens similar to Group X secretory phospholipase A2 precursor (Phc Homo sapiens similar to hypothetical protein MGC33867 (LOC401837), mRN Homo sapiens similar to light protein BC011981 (LOC401837), mRN Homo sapiens similar to light protein BC011981 (LOC401837), mRN Homo sapiens similar to light protein kinase related to Raf protein kinases; Metho Homo sapiens similar to IGHV gene product (LOC401846), mRNA Homo sapiens similar to IGHV gene product (LOC401846), mRNA
XM_377337 XM_377338 XM_377343 XM_377369 XM_377376 XM_377377 XM_377383 XM_377388 XM_377390 XM_377394 XM_377407 XM_377407 XM_377412 XM_377416 XM_377416 XM_377420 XM_377420 XM_377423 XM_377423 XM_377423 XM_377424 XM_377425 XM_377429 XM_377429 XM_377439	Homo sapiens similar to vav-1 interacting Kruppel-like protein isoform b (LOC Homo sapiens similar to cerebellin (LOC401766), mRNA Homo sapiens KIAA0323 (KIAA0323), mRNA Homo sapiens similar to hypothetical protein DJ667H12.2 (LOC401778), mR Homo sapiens similar to hypothetical protein FLJ36144 (LOC401806), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401806), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401808), mRNA Homo sapiens similar to LRRGT00052 (LOC401812), mRNA Homo sapiens similar to stereocilin (LOC401815), mRNA Homo sapiens similar to antigen Cs44 (LOC401819), mRNA Homo sapiens similar to LOC375757 protein (LOC401820), mRNA Homo sapiens similar to melanoma chondroitin sulfate proteoglycan (LOC40 Homo sapiens similar to MKI67 (FHA domain) interacting nucleolar phosphol Homo sapiens similar to mast cell protease-11 (LOC401828), mRNA Homo sapiens similar to antigen to the protein 4732467B22 (LOC401827), mR Homo sapiens similar to Group X secretory phospholipase A2 precursor (Phc Homo sapiens similar to hypothetical protein MGC33867 (LOC401833), mRN Homo sapiens similar to hypothetical protein BC011981 (LOC401837), mRN Homo sapiens similar to IgHv gene product (LOC401845), mRNA Homo sapiens similar to IgHv gene product (LOC401846), mRNA Homo sapiens similar to IGHV gene product (LOC401846), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401858), mRNA Homo sapiens similar to IGHV gene product (LOC401846), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401858), mRNA Homo sapiens similar to IGHV gene product (LOC401846), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401858), mRNA Homo sapiens similar to IGHV gene product (LOC401846), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401858), mRNA
XM_377337 XM_377338 XM_377343 XM_377369 XM_377376 XM_377377 XM_377383 XM_377388 XM_377390 XM_377394 XM_377407 XM_377407 XM_377412 XM_377416 XM_377416 XM_377420	Homo sapiens similar to vav-1 interacting Kruppel-like protein isoform b (LOC Homo sapiens similar to cerebellin (LOC401766), mRNA Homo sapiens KIAA0323 (KIAA0323), mRNA Homo sapiens similar to hypothetical protein DJ667H12.2 (LOC401778), mR Homo sapiens similar to hypothetical protein FLJ36144 (LOC401806), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401808), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401808), mRNA Homo sapiens similar to LRRGT00052 (LOC401812), mRNA Homo sapiens similar to stereocilin (LOC401815), mRNA Homo sapiens similar to antigen Cs44 (LOC401819), mRNA Homo sapiens similar to antigen Cs44 (LOC401819), mRNA Homo sapiens similar to melanoma chondroitin sulfate proteoglycan (LOC40 Homo sapiens similar to hypothetical protein 4732467B22 (LOC401827), mR Homo sapiens similar to hypothetical protein 4732467B22 (LOC401827), mR Homo sapiens similar to 3-phosphoinositide dependent protein kinase-1 (hPI Homo sapiens similar to Group X secretory phospholipase A2 precursor (Phc Homo sapiens similar to hypothetical protein MGC33867 (LOC401837), mRN Homo sapiens similar to hypothetical protein BC011981 (LOC401837), mRN Homo sapiens similar to lighty gene product (LOC401845), mRNA Homo sapiens similar to lighty gene product (LOC401845), mRNA Homo sapiens similar to lighty gene product (LOC401846), mRNA Homo sapiens similar to lighty gene product (LOC401846), mRNA Homo sapiens similar to lighty gene product (LOC401846), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401858), mRNA Homo sapiens similar to lighty gene product (LOC401846), mRNA Homo sapiens similar to hypothetical protein FLJ36144 (LOC401858), mRNA Homo sapiens similar to lighty gene product (LOC401846), mRNA Homo sapiens similar to lighty gene product (LOC401846), mRNA
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XM_377447	Homo sapiens similar to ribosomal protein S1 (LOC401862), mRNA
XM_377451	Homo sapiens LOC401867 (LOC401867), mRNA
XM_377455	Homo sapiens LOC401868 (LOC401868), mRNA
XM_377457	Homo sapiens similar to 40S RIBOSOMAL PROTEIN S12 (LOC401870), mF
XM_377464	Homo sapiens suppressor of Ty 6 homolog (S. cerevisiae) (SUPT6H), mRNA
XM_377475	Homo sapiens similar to CDNA sequence BC004853 (LOC401883), mRNA
XM_377476	Homo sapiens similar to Arf2-prov protein (LOC401884), mRNA
XM_377477	Homo sapiens similar to 60S ribosomal protein L21 (LOC401885), mRNA
XM_377480 XM_377488	Homo sapiens similar to 60S ribosomal protein L17 (L23) (Amino acid starva
XM 377496	Homo saplens similar to bA526D8.2 (novel protein similar to KIAA1074) (LOC
XM_377498	Homo sapiens similar to hypothetical protein (LOC401894), mRNA
XM_377500	Homo sapiens KIAA0863 protein (KIAA0863), mRNA
XM_377506	Homo sapiens similar to ribosomal protein S15; rat insulinoma gene (LOC40
XM_377511	Homo sapiens egf-like module containing, mucin-like, hormone receptor-like
XM_377512	Homo sapiens similar to 60S ribosomal protein L10 (QM protein homolog) (L Homo sapiens similar to glyceraldehyde 3-phosphate dehydrogenase (LOC4
XM 377514	Homo sapiens similar to hypothetical protein FLJ38281 (LOC401898), mRN/
XM_377515	Homo sapiens similar to zinc finger protein 433 (LOC401899), mRNA
XM_377516	Homo sapiens similar to ribosomal protein L28; 60S ribosomal protein L28 (L
XM_377521	Homo sapiens similar to 60S ribosomal protein L23a (LOC401904), mRNA
XM_377522	Homo sapiens similar to fibroblast growth factor receptor 3 (LOC401907), mf
XM_377527	Homo sapiens similar to 60S ribosomal protein L29 (Cell surface heparin bin
XM_377529	Homo sapiens similar to Zinc finger protein 345 (Zinc finger protein HZF10) (
XM_377533	Homo sapiens similar to Pregnancy-specific beta-1-glycoprotein 4 precursor
XM_377537	Homo sapiens similar to OPA3 protein; Optic atrophy 3 (Iragi-Jewish optic at
XM_377538	Homo sapiens similar to Mucin 4 (Tracheobronchial mucin) (LOC401923), m
XM_377553	Homo sapiens similar to zinc finger protein (LOC401932), mRNA
XM_377554	Homo sapiens similar to hypothetical protein MGC4734 (LOC401933), mRN/
XM_377555	Homo sapiens similar to RIKEN cDNA 5830442J12 (LOC401934), mRNA
XM_377556	Homo sapiens similar to Hypothetical protein CBG06524 (LOC401936), mRN
XM_377558	Homo sapiens similar to elongation factor 1 delta (LOC401937), mRNA
XM_377563	Homo sapiens similar to Hypothetical protein DJ845O24.1 (LOC401938), mF
XM_377565 XM_377566	Homo sapiens similar to Hypothetical protein DJ845O24.1 (LOC401939), mF
XM_377568	Homo sapiens similar to dJ845O24.1 (Melanoma Preferentially Expressed Al
XM_377570	Homo sapiens similar to hypothetical protein (LOC401941), mRNA
XM_377577	Homo sapiens similar to Hypothetical protein DJ845O24.1 (LOC401942), mF
XM_377579	Homo sapiens hypothetical gene supported by AK127275 (LOC401944), mR
XM_377580	Homo sapiens similar to cICK0721Q.2 (60S Ribosomal Protein L12 LIKE pro Homo sapiens similar to DC2 protein (LOC401946), mRNA
XM_377583	Homo sapiens similar to ribosomal protein L27 (LOC401947), mRNA
XM_377585	Homo sapiens similar to receptor tyrosine phosphatase (LOC401948), mRN/
XM_377586	Homo sapiens similar to MGC52970 protein (LOC401949), mRNA
XM_377593	Homo sapiens similar to dJ612B15.1 (novel protein similar to 60S ribosomal
XM_377594	Homo sapiens similar to sporulation-induced transcript 4-associated protein
XM_377595	Homo sapiens similar to beta-actin (LOC401956), mRNA
XM_377597	Homo sapiens similar to glyceraldehyde 3-phosphate dehydrogenase (LOC4
XM_377599	Homo sapiens similar to hypothetical protein MGC8902 (LOC401962), mRN/
XM_377600	Homo sapiens similar to hypothetical protein MGC8902 (LOC401963), mRN/
XM_377601	Homo sapiens similar to AG3 (LOC401964), mRNA
XM_377611	Homo sapiens similar to Olfactory receptor 10J6 (LOC401973), mRNA
XM_377613	Homo sapiens similar to ribosomal protein S2; 40S ribosomal protein S2 (LO
XM_377618	Homo sapiens LOC401976 (LOC401976), mRNA
XM_377620	Homo sapiens similar to 14.5 kDa translational inhibitor protein (p14.5) (UK1
XM_377630	Homo sapiens similar to RIKEN cDNA 2610020C11 (LOC401983), mRNA
XM_377631 XM_377633	Homo sapiens similar to beta actin (LOC401987), mRNA
XM_377635	Homo sapiens similar to Olfactory receptor 2G2 (LOC401990), mRNA
AWI_377033	Homo sapiens similar to CDC-like kinase 3; cdc2/CDC28-like protein kinase

XM_377643	Homo sapiens similar to Olfactory receptor 2T2 (LOC401992), mRNA
XM_377644	Homo sapiens similar to Olfactory receptor 2T5 (LOC401993), mRNA
XM_377645	Homo sapiens similar to seven transmembrane helix receptor (LOC401994),
XM_377649	Homo sapiens similar to 14.5 kDa translational Inhibitor protein (p14.5) (UK1
XM_377655	Homo sapiens similar to seven transmembrane helix receptor (LOC401997),
XM_377657	Homo sapiens similar to Olfactory receptor 2T5 (LOC401998), mRNA
XM_377658	Homo sapiens similar to seven transmembrane helix receptor (LOC401999),
XM_377659	Homo sapiens similar to Olfactory receptor 2T11 (LOC402000), mRNA
XM_377660	Homo sapiens similar to seven transmembrane helix receptor (LOC402001),
XM_377661	Homo sapiens similar to Olfactory receptor 5BF1 (LOC402002), mRNA
XM_377662	Homo sapiens similar to Olfactory receptor 2T4 (LOC402003), mRNA
XM_377663	Homo sapiens similar to Olfactory receptor 2T1 (Olfactory receptor 1-25) (OF
XM_377664	Homo sapiens similar to Olfactory receptor 2T2 (LOC402006), mRNA
XM_377665	Homo sapiens similar to Olfactory receptor 2T3 (LOC402007), mRNA
XM_377666	Homo sapiens similar to Olfactory receptor 2T5 (LOC402008), mRNA
XM_377668	Homo sapiens similar to hypothetical protein F830045P16 (LOC402009), mF
XM_377675	Homo sapiens similar to dJ1187J4.2 (novel protein similar to rat RYF3) (LOC
XM_377687	Homo sapiens similar to hypothetical protein FLJ21347 (LOC402027), mRN/
XM_377690	Homo sapiens similar to extensin-like protein (LOC402030), mRNA
XM 377691	Homo sapiens LOC402032 (LOC402032), mRNA
XM_377694	Homo sapiens similar to LOC284861 protein (LOC402034), mRNA
XM_377695	Homo sapiens similar to LOC284861 protein (LOC402035), mRNA
XM_377696	Homo sapiens similar to carbonic anhydrase XV (LOC402036), mRNA
XM_377700	Homo sapiens similar to LOC284861 protein (LOC402038), mRNA
XM_377713	Homo sapiens similar to SRR1-like protein (LOC402055), mRNA
XM_377715	Homo sapiens similar to Small nuclear ribonucleoprotein associated protein I
XM 377716	Homo sapiens similar to 40S ribosomal protein S17 (LOC402057), mRNA
XM_377717	Homo sapiens similar to dJ1119A7.3 (PUTATIVE novel protein similar to HP:
XM_377720	Homo sapiens hypothetical protein BC012882 (LOC150356), mRNA
XM_377721	Homo sapiens similar to Hypothetical protein CBG23588 (LOC402064), mRN
XM_377725	Homo sapiens similar to LWamide neuropeptide precursor protein (LOC4020
XM_377728	Homo sapiens similar to Hypothetical protein CBG08601 (LOC402067), mRN
XM_377732	Homo sapiens similar to egg envelope component ZPAX (LOC402068), mRN
XM_377741	Homo sapiens similar to SPCPB16A4.07c (LOC402072), mRNA
XM_377742	Homo sapiens KIAA1940 protein (KIAA1940), mRNA
XM_377751	Homo sapiens similar to Ig kappa chain V region (Z3) - human (LOC402089)
XM_377754	Homo sapiens LOC402090 (LOC402090), mRNA
XM_377755	Homo sapiens similar to hypothetical protein (LOC402094), mRNA
XM_377756	Homo sapiens similar to dJ908M14.1.3 (ribosomal protein S21, isoform 3) (L
XM_377760	Homo sapiens similar to ribosomal protein L22 (LOC402098), mRNA
XM_377761	Homo sapiens similar to ribosomal protein L22 (LOC402100), mRNA
XM_377766	Homo sapiens similar to hypothetical protein DKFZp434P0316 (LOC402103)
XM_377768	Homo sapiens similar to hypothetical protein FLJ10462 (LOC402104), mRN/
XM_377771	Homo sapiens similar to 60S ribosomal protein L6 (TAX-responsive enhance
XM_377774	Homo sapiens kinesin family member 5C (KIF5C), mRNA
XM_377776	Homo sapiens similar to Acidic ribosomal phosphoprotein P0 (LOC402109),
XM_377778	Homo sapiens LOC402110 (LOC402110), mRNA
XM_377783	Homo sapiens similar to RIKEN cDNA A930041G11 gene (LOC402117), mR
XM_377786	Homo sapiens similar to ribosomal protein L23 (LOC402120), mRNA
XM_377797	Homo sapiens similar to laminin receptor-like protein LAMRL5 (LOC402123).
XM_377803	Homo sapiens similar to RIKEN cDNA 1700112C13 (LOC402128), mRNA
XM_377809	Homo sapiens similar to Olfactory receptor 5K2 (LOC402135), mRNA
XM_377811	Homo sapiens similar to transcription factor INI (LOC402136), mRNA
XM_377815	Homo sapiens similar to chromosome 11 open reading frame2; chromosome
XM_377818	Homo sapiens similar to mesenchymal stem cell protein DSC92; neurite outg
XM_377820	
XM_377823	Homo sapiens similar to p53 apoptosis effector related to Pmp22; p53 apopto

XM_377824	Homo sapiens similar to Kinesin-like protein KIF3A (Microtubule plus end-din
XM_377828	Homo sapiens similar to GLP_171_8870_6279 (LOC402160), mRNA
XM_377829	Homo sapiens similar to hypothetical protein MGC45871 (LOC402161), mRN
XM_377830	Homo sapiens similar to deubiquitinating enzyme 3 (LOC402164), mRNA
XM_377831	Homo sapiens similar to deubiquitinating enzyme 3 (LOC402165), mRNA
XM_377832	Homo sapiens similar to deubiquitinating enzyme 3 (LOC402166), mRNA
XM_377834	Homo sapiens similar to deubiquitinating enzyme 3 (LOC402167), mRNA
XM_377835	Homo sapiens similar to deubiquitinating enzyme 3 (LOC402168), mRNA
XM_377836	Homo sapiens similar to deubiquitinating enzyme 3 (LOC402169), mRNA
XM_377837	Homo sapiens similar to deubiquitinating enzyme 3 (LOC402170), mRNA
XM_377841	Homo sapiens similar to 60S ribosomal protein L21 (LOC402176), mRNA
XM_377845	Homo sapiens similar to ribosomal protein S21; 40S ribosomal protein S21 (I
XM_377847	Homo sapiens similar to ras-related C3 botulinum toxin substrate 1 isoform F
XM_377849	Homo sapiens similar to alanyl trna synthetase (LOC402188), mRNA
XM_377861	Homo sapiens similar to glycine-rich protein (LOC402194), mRNA
XM_377875	Homo sapiens similar to Transcription initiation factor TFIID 28 kDa subunit (
XM_377877	Homo sapiens similar to Transcription initiation factor TFIID 28 kDa subunit (
XM_377878	Homo sapiens similar to Transcription initiation factor TFIID 28 kDa subunit (
XM_377879	Homo sapiens similar to Transcription initiation factor TFIID 28 kDa subunit (
XM_377880	Homo sapiens similar to Transcription initiation factor TFIID 28 kDa subunit (
XM_377881	Homo sapiens similar to Transcription initiation factor TFIID 28 kDa subunit (
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XM_377887	Homo sapiens similar to Transcription initiation factor TFIID 28 kDa subunit (
XM_377889	Homo sapiens similar to Transcription initiation factor TFIID 28 kDa subunit (
XM_377896	Homo sapiens similar to ribosomal protein L13a; 60S ribosomal protein L13a
XM_377904	Homo sapiens similar to cytoplasmic beta-actin (LOC402218), mRNA
XM_377907	Homo sapiens similar to beta-glucuronidase (LOC402223), mRNA
XM_377910	Homo sapiens similar to RIKEN cDNA A730017C20 (LOC402228), mRNA
XM_377911	Homo sapiens similar to hypothetical protein E230025N22 (LOC402231), mF
XM_377912	Homo sapiens KIAA0194 protein (KIAA0194), mRNA
XM_377918	Homo sapiens similar to Ac1147 (LOC402235), mRNA
XM_377919	Homo sapiens similar to RIKEN cDNA 2310040C09 (LOC402237), mRNA
XM_377920	Homo sapiens similar to Selenophosphate synthetase 1 (LOC402238), mRN
XM_377924	Homo sapiens similar to Olfactory receptor 4F3 (LOC402242), mRNA
XM_377925	Homo sapiens similar to hypothetical protein FLJ37300 (LOC402244), mRN/
XM_377926	Homo sapiens similar to mesenchymal stem cell protein DSC92; neurite out
XM_377927	Homo sapiens similar to olfactory receptor MOR267-3 (LOC402246), mRNA
XM_377928	Homo sapiens similar to Calgizzarin (S100C protein) (MLN 70) (LOC402247)
XM_377929	Homo sapiens similar to ribosomal protein L31 (LOC402248), mRNA
XM_377931	Homo sapiens similar to olfactory receptor MOR145-2 (LOC402249), mRNA
XM_377932	Homo sapiens similar to 4930579E17Rik protein (LOC402250), mRNA
XM_377933	Homo sapiens similar to MGC76216 protein (LOC402251), mRNA Homo sapiens similar to peptidylprolyl isomerase A (LOC402252), mRNA
XM_377934	Homo sapiens similar to peptidylprolyl isomerase A (LOC402252), mRNA
XM_377935	
XM_377938	Homo sapiens similar to ELK1 (LOC402257), mRNA Homo sapiens similar to equilibrative nucleoside transporter 4; hENT4 (LOC4
XM_377941	
XM_377942	
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XM_377950	Homo sapiens similar to GTF2l repeat domain containing 1 isoform 2; Williar
XM 377951	Homo sapiens similar to peptidylprolyl isomerase A (LOC402284), mRNA
XM_377955	Homo sapiens hypothetical protein DKFZP434A0225 (DKFZP434A0225), mf
XM_377956	Homo sapiens similar to RIKEN cDNA 4930511M11 (LOC402286), mRNA
XM_377957	Homo sapiens similar to ribosomal protein S3a; 40S ribosomal protein S3a; \
XM 377958	Homo sapiens similar to Ser/Thr protein kinase PAR-1Balpha (LOC402289),
XM_377959	Homo sapiens similar to Nuclear protein Hcc-1 (HSPC316) (Proliferation ass
XM_377961	Homo sapiens similar to opposite strand transcription unit to Stag3; Gats pro
XM_377962	Homo sapiens postmeiotic segregation increased 2-like 1 (PMS2L1), mRNA
XM_377964	Homo sapiens similar to 40S RIBOSOMAL PROTEIN SA (P40) (34/67 KD L/
XM_377969	Homo sapiens similar to 60S ribosomal protein L23a (LOC402294), mRNA
XM_377970	Homo sapiens similar to Argininosuccinate synthase (Citrulline-aspartate lig
XM_377972	Homo sapiens similar to Triosephosphate isomerase (TIM) (LOC402298), ml
XM_377973	Homo sapiens similar to aldo-keto reductase family 1, member B10; aldose r
XM_377974	Homo sapiens similar to beta-tubulin (LOC402300), mRNA
XM_377976	Homo sapiens similar to Nucleoside diphosphate kinase, mitochondrial precu
XM_377995	Homo sapiens similar to Olfactory receptor 2A1 (LOC402317), mRNA
XM_377997	Homo sapiens similar to 60S ribosomal protein L32 (LOC402318), mRNA
XM_377998	Homo sapiens similar to Huntingtin interacting protein K (LOC402319), mRN.
XM_377999	Homo sapiens similar to BET1 homolog (Golgi vesicular membrane traffickin
XM_378001	Homo sapiens similar to TSH receptor suppressor element-binding protein-1
XM_378002	Homo sapiens similar to ppg3 (LOC402322), mRNA
XM_378003	Homo sapiens similar to S-adenosylmethionine decarboxylase 1; S-adenosyl
XM_378007	Homo sapiens similar to hypothetical protein PFL1865w (LOC402324), mRN
XM_378008	Homo sapiens similar to ENSANGP00000017949 (LOC402325), mRNA
XM_378009	Homo sapiens similar to hypothetical protein (LOC402326), mRNA
XM_378010	Homo sapiens similar to stage-specific S antigen homolog (LOC402327), mF
XM_378014	Homo sapiens similar to ubiquitin-specific protease 17-like protein (LOC4023
XM_378015	Homo sapiens similar to chromosome 11 open reading frame2; chromosome
XM_378018	Homo sapiens similar to chromosome 11 open reading frame2; chromosome
XM_378028	Homo sapiens similar to L21 ribosomal protein (LOC402336), mRNA
XM_378031	Homo sapiens similar to short chain dehydrogenase reductase 9 (LOC40233
XM_378033	Homo sapiens similar to chromosome 20 open reading frame 6 (LOC402340
XM_378035	Homo sapiens similar to fatty acid binding protein 9, testis; testis lipid binding
XM_378036	Homo sapiens similar to tropomyosin 3, gamma (LOC402344), mRNA
XM_378043	Homo sapiens similar to RIKEN cDNA 1700091F14 (LOC402353), mRNA
XM_378044	Homo sapiens similar to hypothetical protein (LOC402354), mRNA
XM_378046	Homo sapiens similar to RIKEN cDNA 1700091F14 (LOC402355), mRNA
XM_378052	Homo sapiens similar to Interferon omega-1 precursor (Interferon alpha-II-1)
XM_378054	Homo sapiens similar to hypothetical protein (LOC402360), mRNA
XM_378062	Homo sapiens similar to 6-pyruvoyl-tetrahydropterin synthase (LOC402365),
XM_378063	Homo sapiens similar to 6-pyruvoyl-tetrahydropterin synthase (LOC402366),
XM_378064	Homo sapiens LOC402367 (LOC402367), mRNA Homo sapiens similar to phosphoglucomutase 5 (LOC402368), mRNA
XM_378067	Homo sapiens chromosome 9 open reading frame 4 (C9orf4), mRNA
XM_378078	Homo sapiens similar to beta-1,3-N-acetylglucosaminyltransferase 5 (LOC40
XM_378080	Homo sapiens similar to beta-1,3-14-acetylgidosaminyttansierase o (2004) Homo sapiens similar to ligand-independent activating molecule for estrogen
XM_378087	Homo sapiens similar to logard-independent activating molecule for estrogen Homo sapiens similar to LOC286220 protein (LOC402381), mRNA
XM_378089	Homo sapiens similar to F4N2.10 (LOC402382), mRNA
XM_378090	Homo sapiens similar to F4N2.10 (LOC402362), micha Homo sapiens similar to ENSANGP0000002367 (LOC402386), mRNA
XM_378102	Homo sapiens similar to ENSANGPO000002307 (200402300), mixtor Homo sapiens similar to hydroxymethylpterin pyrophosphokinase-dihydropte
XM_378103	Homo sapiens similar to LOC142827 protein (LOC402402), mRNA
XM_378113	Homo sapiens similar to DKFZP434O047 protein (LOC402403), mRNA
XM_378116	
XM_378118 XM_378123	
XM 378123	
XM_378125	
VIAI 210152	Figure Capital Children to Hypotholical protein in Coot 2.1. (200, 521, 69) in a

XM_378128	Homo sapiens similar to dJ19N1.1 (novel protein) (LOC402416), mRNA
XM_378137	Homo sapiens similar to olfactory receptor MOR262-9 (LOC402424), mRNA
XM_378143	Homo sapiens similar to tau tubulin kinase 2; tau-tubulin kinase (LOC402429
XM_378152	Homo sapiens similar to bA203l16.1 (KIAA0970 protein) (LOC402432), mRN
XM_378155	Homo sapiens similar to hydroxymet hylpterin pyrophosphokinase-dihydropte
XM_378156	Homo sapiens similar to trophinin; melanoma antigen, family D, 3; trophinin-2
XM_378158	Homo sapiens similar to hypothetica I protein FLJ90430 (LOC402437), mRN/
XM_378172	Homo sapiens spermatogenesis-related protein 8 (MGC44294), mRNA
XM_378173	Homo sapiens hypothetical protein MGC18216 (MGC18216), mRNA
XM 378175	Homo sapiens hypothetical protein BC017488 (LOC124446), mRNA
XM 378177	Homo sapiens hypothetical gene supported by NM_078471 (LOC399700), m
XM_378178	Homo sapiens hypothetical protein MGC9913 (MGC9913), mRNA
XM 378180	Homo sapiens hypothetical protein MGC10812 (MGC10812), mRNA
XM_378181	Homo saplens KIAA1041 protein (KIAA1041), mRNA
XM 378183	Homo sapiens hypothetical protein MGC5457 (MGC5457), mRNA
XM 378184	Homo sapiens KIAA1383 protein (KIAA1383), mRNA
XM 378185	Homo sapiens hypothetical gene supported by AL833273; NM_014644 (LOC
XM_378186	Homo sapiens hypothetical protein MGC15634 (MGC15634), mRNA
XM_378187	Homo sapiens hypothetical protein MGC4473 (MGC4473), mRNA
XM 378189	Homo sapiens hypothetical protein MGC15705 (MGC15705), mRNA
XM 378190	Homo sapiens hypothetical protein MGC10955 (MGC10955), mRNA
XM_378191	Homo sapiens hypothetical protein PRO2964 (PRO2964), mRNA
XM_378192	Homo sapiens hypothetical gene supported by NM_015583 (LOC399702), m
XM 378193	Homo sapiens hypothetical protein MGC10981 (MGC10981), mRNA
XM 378194	Homo sapiens hypothetical gene supported by NM_020669 (LOC399703), m
XM 378195	Homo sapiens hypothetical gene supported by NM_001517 (LOC399704), m
XM_378196	Homo sapiens hypothetical protein FLJ36112 (FLJ36112), mRNA
XM_378197	Homo sapiens hypothetical protein FLJ14464 (FLJ14464), mRNA
XM 378199	Homo sapiens hypothetical protein FLJ10232 (FLJ10232), mRNA
XM_378200	Homo sapiens hypothetical gene supported by AK097673 (LOC399706), mR
XM_378201	Homo sapiens hypothetical protein LOC282980 (LOC282980), mRNA
XM_378202	Homo sapiens hypothetical gene supported by AK056101 (LOC399707), mR
XM_378203	Homo sapiens hypothetical gene supported by BC055423 (LOC399708), mR
XM_378207	Homo sapiens hypothetical protein L_OC338588 (LOC338588), mRNA
XM_378208	Homo sapiens hypothetical gene supported by AK125014 (LOC399713), mR
XM_378210	Homo sapiens hypothetical gene supported by AK128810 (LOC399717), mR
XM_378211	Homo sapiens hypothetical protein L.OC254312 (LOC254312), mRNA
XM_378215	Homo sapiens hypothetical gene supported by BC040880 (LOC399726), mR
XM_378218	Homo sapiens hypothetical gene supported by BX537934 (LOC399736), mR
XM_378219	Homo sapiens LOC399737 (LOC399737), mRNA
XM 378223	Homo sapiens hypothetical gene supported by AK093334; AL833330; BC020
XM_378224	Homo sapiens hypothetical gene supported by X06747; BC012158; NM_002
XM_378226	Homo sapiens hypothetical protein LOC170371 (LOC170371), mRNA
XM 378227	Homo sapiens hypothetical gene supported by AK093334; AL833330; BC020
XM_378228	Homo sapiens hypothetical gene supported by AK093334; AL833330; BC020
XM_378230	
XM_378232	
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XM_378259	Homo sapiens hypothetical gene supported by BX647230 (LOC399832), mR
XM_378260	Homo sapiens hypothetical gene supported by AK126615 (LOC399833), mR
XM_378261	Homo sapiens hypothetical gene supported by BC004945; BC020442; BC06
XM_378262	Homo sapiens hypothetical protein LOC284701 (LOC284701), mRNA
XM_378266	Homo sapiens hypothetical gene supported by AY129010 (LOC399851), mR
XM_378271	Homo sapiens hypothetical gene supported by AK002039 (LOC399865), mR
XM_378272	Homo sapiens hypothetical gene supported by BX647519 (LOC399866), mR
XM_378273	Homo sapiens hypothetical gene supported by AK127718 (LOC399867), mR
XM_378276	Homo sapiens LOC399872 (LOC399872), mRNA
XM 378277	Homo sapiens hypothetical gene supported by AK096475 (LOC399873), mR
XM_378279	Homo sapiens hypothetical gene supported by BC040220 (LOC399875), mR
XM 378280	Homo sapiens hypothetical gene supported by AK023501 (LOC399876), mR
XM 378283	Homo sapiens hypothetical gene supported by AK127155 (LOC399879), mR
XM_378286	Homo sapiens hypothetical gene supported by AK093366 (LOC399884), mR
XM 378288	Homo sapiens hypothetical gene supported by AK123417 (LOC399886), mR
XM_378297	Homo sapiens hypothetical gene supported by X15675 (LOC399912), mRNA
XM_378299	Homo sapiens hypothetical gene supported by AK094674 (LOC399919), mR
XM_378300	Homo sapiens hypothetical gene supported by BC039105 (LOC399920), mR
XM_378301	Homo sapiens hypothetical gene supported by AL832797 (LOC399924), mR
XM_378303	Homo sapiens hypothetical protein LOC283214 (LOC283214), mRNA
XM_378304	Homo sapiens hypothetical gene supported by BC026292 (LOC399930), mR
_	Homo sapiens LOC399933 (LOC399933), mRNA
XM_378305 XM_378308	Homo sapiens LOC399945 (LOC399945), mRNA
_	Homo sapiens LOC399951 (LOC399951), mRNA
XM_378309	Homo sapiens hypothetical gene supported by AK124988 (LOC399954), mR
XM_378311	Homo sapiens hypothetical gene supported by AK124900 (LOC399904), mix
XM_378312	Homo sapiens hypothetical protein LOC283143 (LOC283143), mRNA
XM_378313	Homo sapiens LOC399955 (LOC399955), mRNA
XM_378314	Homo sapiens hypothetical protein LOC283152 (LOC283152), mRNA
XM_378316	Homo sapiens hypothetical gene supported by BX647608 (LOC399959), mR
XM_378317	Homo sapiens LOC399961 (LOC399961), mRNA
XM_378320	Homo sapiens hypothetical gene supported by AK125355 (LOC399971), mR
XM_378321	Homo sapiens hypothetical gene supported by AK096370 (LOC399972), mR
XM_378325	Homo sapiens hypothetical gene supported by BC031979 (LOC399978), mR
XM_378326	Homo sapiens hypothetical gene supported by AK127362 (LOC399980), mR
XM_378327	Homo sapiens hypothetical protein LOC283177 (LOC283177), mRNA
XM_378328	Homo sapiens hypothetical gene supported by BC039168 (LOC399982), mR
XM_378329	Homo sapiens hypothetical gene supported by AK090616 (LOC399983), mR
XM_378330	Homo sapiens hypothetical gene supported by AK057909 (LOC399984), mR
XM_378331	Homo sapiens hypothetical gene supported by AK056228 (LOC399986), mR
XM_378332	Homo sapiens LOC399987 (LOC399987), mRNA
XM_378336	Homo sapiens LOC399993 (LOC399993), mRNA
XM_378339	Homo sapiens hypothetical gene supported by AK128230 (LOC400002), mR
XM_378340	Homo sapiens LOC400004 (LOC400004), mRNA
XM_378342	Homo sapiens hypothetical gene supported by BC003510; NM_002823 (LOC
XM_378343	
XM_378344	Homo sapiens LOC400015 (LOC400015), mRNA
XM 378346	
XM 378349	Homo sapiens LOC400019 (LOC400019), mRNA
XM_378350	
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XM_378363	' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
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VIA 270205	Harra comiona I OC4000E0 (LOC4000EO) mDNA
XM_378365	Homo sapiens LOC400050 (LOC400050), mRNA
XM_378366	Homo sapiens hypothetical gene supported by AK124066 (LOC400051), mR
XM_378367	Homo sapiens LOC400053 (LOC400053), mRNA
XM_378368	Homo sapiens hypothetical protein LOC283392 (LOC283392), mRNA
XM_378371	Homo sapiens hypothetical protein LOC338758 (LOC338758), mRNA
XM_378372	Homo sapiens hypothetical protein LOC256021 (LOC256021), mRNA
XM_378374	Homo sapiens hypothetical protein LOC338809 (LOC338809), mRNA
XM_378379	Homo sapiens hypothetical protein LOC283432 (LOC283432), mRNA
XM_378381	Homo sapiens hypothetical gene supported by BX648662 (LOC400070), mR
XM_378388	Homo sapiens hypothetical protein LOC144742 (LOC144742), mRNA
XM 378389	Homo sapiens hypothetical gene supported by AK057632; AL137270; BC05.
XM_378390	Homo sapiens hypothetical protein LOC144678 (LOC144678), mRNA
XM_378392	Homo sapiens hypothetical gene supported by AK094824 (LOC400087), mR
XM 378393	Homo sapiens hypothetical gene supported by AK126855 (LOC400088), mR
XM 378394	Homo sapiens hypothetical protein LOC116437 (LOC116437), mRNA
XM 378398	Homo sapiens LOC400092 (LOC400092), mRNA
XM_378399	Homo sapiens hypothetical gene supported by BC024195 (LOC400099), mR
XM_378404	Homo sapiens hypothetical gene supported by AK098387 (LOC400108), mR
XM_378405	Homo sapiens LOC400111 (LOC40011 1), mRNA
XM_378407	Homo sapiens hypothetical gene supported by BX648491 (LOC400115), mR
XM 378411	Homo sapiens hypothetical gene supported by AK124383 (LOC400123), mR
XM 378412	Homo sapiens LOC400125 (LOC400125), mRNA
_	Homo sapiens hypothetical gene supported by BC025370 (LOC400128), mR
XM_378413	Homo sapiens hypothetical gene supported by AF529010 (LOC400131), mR
XM_378414	Homo sapiens LOC400134 (LOC400134), mRNA
XM_378416	Homo sapiens LOC400134 (LOC400134), mitta Homo sapiens hypothetical protein LOC144766 (LOC144766), mRNA
XM_378419	Homo sapiens hypothetical gene supported by AK056689 (LOC400144), mR
XM_378421	Homo sapiens LOC400151 (LOC400151), mRNA
XM_378425	Homo sapiens bypothetical gene supported by BC035106 (LOC400154), mR
XM_378428	Homo sapiens hypothetical protein LOC283480 (LOC283480), mRNA
XM_378430 XM_378431	Homo sapiens hypothetical protein LOC283483 (LOC283483), mRNA
_	Homo sapiens hypothetical gene supported by BC038751 (LOC400161), mR
XM_378434	Homo sapiens hypothetical gene supported by BC034786 (LOC400163), mR
XM_378436 XM_378437	Homo sapiens hypothetical gene supported by BX649107 (LOC400164), mR
_	Homo sapiens hypothetical gene supported by BC041346 (LOC400167), mR
XM_378439	Homo sapiens LOC400171 (LOC400171), mRNA
XM_378441	Homo sapiens LOC400201 (LOC4002O1), mRNA
XM_378449 XM_378452	Homo sapiens hypothetical protein LOC253970 (LOC253970), mRNA
	Homo sapiens hypothetical gene supported by AK125955 (LOC400208), mR
XM_378453	Homo sapiens hypothetical protein LOC283547 (LOC283547), mRNA
XM_378454 XM_378455	Homo sapiens hypothetical protein LOC283551 (LOC283551), mRNA
	Homo sapiens hypothetical gene supported by AK127576 (LOC400212), mR
XM_378456 XM_378457	Homo sapiens hypothetical gene supported by PRO55421 (LOC400213), mR
_	Homo sapiens hypothetical gene supported by BC037850 (LOC400216), mR
XM_378460	Homo saplens hypothetical gene supported by AK026100 (LOC400221), mR
XM_378462	
XM_378465	· · · · · · · · · · · · · · · · · · ·
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XM_378470	
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XM_378491	Homo sapiens hypothetical gene supported by BC033241 (LOC400263), mR
XM 378493	Homo sapiens hypothetical gene supported by AK127783 (LOC400302), mR
XM_378494	Homo sapiens LOC400307 (LOC40O307), mRNA
XM 378496	Homo sapiens hypothetical gene supported by BC047459 (LOC400314), mR
XM 378506	Homo sapiens hypothetical gene supported by AK125576; AL117445; BC03:
XM 378507	Homo sapiens hypothetical protein LOC145845 (LOC145845), mRNA
XM_378511	Homo sapiens hypothetical gene supported by BC031266 (LOC400368), mR
XM 378512	Homo sapiens hypothetical gene supported by BX537772 (LOC400369), mR
XM 378514	Homo sapiens hypothetical protein LOC283663 (LOC283663), mRNA
XM 378515	Homo sapiens hypothetical gene supported by AK091917 (LOC400377), mR
XM 378516	Homo sapiens hypothetical protein LOC255177 (LOC255177), mRNA
XM_378517	Homo sapiens hypothetical protein MGC15885 (MGC15885), mRNA
XM_378522	Homo sapiens hypothetical gene supported by BC043587 (LOC400386), mR
XM 378523	Homo sapiens LOC400388 (LOC40O388), mRNA
XM_378525	Homo sapiens hypothetical protein LOC283731 (LOC283731), mRNA
XM_378526	Homo sapiens LOC400393 (LOC40O393), mRNA
XM 378528	Homo sapiens LOC400398 (LOC40O398), mRNA
XM_378529	Homo sapiens hypothetical gene supported by AK022116 (LOC400400), mR
XM 378532	Homo sapiens hypothetical protein LOC253044 (LOC253044), mRNA
XM 378535	Homo sapiens LOC400411 (LOC40O411), mRNA
XM 378538	Homo sapiens hypothetical gene supported by AL137524 (LOC400433), mR
XM 378542	Homo sapiens hypothetical protein LOC283761 (LOC283761), mRNA
XM 378544	Homo sapiens hypothetical protein LOC283682 (LOC283682), mRNA
XM 378545	Homo sapiens hypothetical gene supported by BC040875 (LOC400456), mR
XM 378546	Homo sapiens hypothetical protein LOC145820 (LOC145820), mRNA
XM 378549	Homo sapiens hypothetical protein LOC91948 (LOC91948), mRNA
XM_378550	Homo sapiens hypothetical protein LOC145757 (LOC145757), mRNA
XM 378551	Homo sapiens LOC400463 (LOC40O463), mRNA
XM 378553	Homo sapiens hypothetical gene supported by BC041891 (LOC400475), mR
XM 378558	Homo sapiens hypothetical protein LOC146443 (LOC146443), mRNA
XM_378562	Homo sapiens hypothetical gene supported by AL162011 (LOC400496), mR
XM_378564	Homo sapiens LOC400500 (LOC40O500), mRNA
XM_378567	Homo sapiens hypothetical gene supported by BX640722 (LOC400505), mR
XM_378571	Homo sapiens hypothetical gene supported by AK127191 (LOC400511), mR
XM_378573	Homo sapiens hypothetical gene supported by AK025061 (LOC400512), mR
XM_378576	Homo sapiens hypothetical gene supported by AK126852 (LOC400516), mR
XM_378577	Homo sapiens hypothetical gene supported by AK123554 (LOC400517), mR
XM_378578	Homo sapiens hypothetical gene supported by BC023258 (LOC400518), mR
XM_378579	Homo sapiens hypothetical gene supported by AK097527 (LOC400522), mR
XM_378582	Homo sapiens LOC400523 (LOC400523), mRNA
XM_378586	Homo sapiens LOC400531 (LOC400531), mRNA
XM_378588	Homo sapiens hypothetical gene supported by BC047414 (LOC400532), mR
XM_378589	Homo sapiens hypothetical protein LOC283914 (LOC283914), mRNA
XM_378590	Homo sapiens hypothetical gene supported by AK129756 (LOC400533), mR
XM_378592	Homo sapiens LOC400534 (LOC400534), mRNA
XM_378594	Homo sapiens hypothetical gene supported by AK128747 (LOC400535), mR
XM_378595	Homo sapiens hypothetical gene supported by AK057373 (LOC400536), mR
XM_378599	Homo sapiens hypothetical protein LOC283854 (LOC283854), mRNA
XM_378601	Homo sapiens hypothetical gene supported by AK057319 (LOC400538), mR
XM_378606	Homo sapiens hypothetical protein LOC283867 (LOC283867), mRNA
XM_378607	Homo sapiens hypothetical gene supported by AL080152 (LOC400540), mR Homo sapiens hypothetical gene supported by AK096066 (LOC400541), mR
XM_378608	Home conions hypothetical gone supported by PC064490 (LOC400544), mP
XM_378609	Homo sapiens hypothetical gene supported by BC064480 (LOC400544), mR
XM_378610	Homo sapiens LOC400545 (LOC400545), mRNA Homo sapiens hypothetical gene supported by BC040918 (LOC400548), mR
XM_378617	Homo sapiens hypothetical gene supported by AK091834 (LOC400550), mR
XM_378620	Homo sapiens hypothetical gene supported by AK125749 (LOC400551), mR
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XM_378623	Homo sapiens hypothetical gene supported by AK055320 (LOC400552), mR
XM_378625	Homo sapiens hypothetical gene supported by AK126852 (LOC400553), mR
XM_378626	Homo sapiens hypothetical gene supported by AK123554 (LOC400554), mR
XM 378628	Homo sapiens hypothetical protein MGC23284 (MGC23284), mRNA
XM_378629	Homo sapiens hypothetical gene supported by AK127064 (LOC400556), mR
XM_378630	Homo sapiens hypothetical gene supported by AK055272 (LOC400557), mR
XM_378631	Homo sapiens hypothetical gene supported by AK130578 (LOC400558), mR
XM 378632	Homo sapiens LOC400560 (LOC400560), mRNA
XM 378633	Homo sapiens LOC400561 (LOC400561), mRNA
XM 378634	Homo sapiens LOC400562 (LOC400562), mRNA
XM_378637	Homo sapiens LOC400565 (LOC400565), mRNA
XM_378639	Homo sapiens hypothetical gene supported by AK093801 (LOC400567), mR
XM 378642	Homo sapiens hypothetical protein LOC284009 (LOC284009), mRNA
XM 378643	Homo sapiens hypothetical gene supported by BC043554 (LOC400568), mR
XM 378646	Homo sapiens LOC400571 (LOC400571), mRNA
XM_378648	Homo sapiens LOC400572 (LOC400572), mRNA
XM 378649	Homo sapiens hypothetical gene supported by BC015790; BC041634 (LOC4
XM_378650	Homo sapiens hypothetical gene supported by BC017752 (LOC400575), mR
XM 378653	Homo sapiens hypothetical gene supported by AK098696 (LOC400577), mR
XM_378655	Homo sapiens hypothetical protein LOC96597 (LOC96597), mRNA
XM 378656	Homo sapiens hypothetical gene supported by AK093253 (LOC400579), mR
XM 378660	Homo sapiens hypothetical gene supported by AK093253 (LOC400584), mR
XM_378661	Homo sapiens hypothetical protein LOC339263 (LOC339263), mRNA
XM_378664	Homo sapiens hypothetical gene supported by AK124344 (LOC400588), mR
XM_378667	Homo sapiens hypothetical protein LOC147004 (LOC147004), mRNA
XM_378668	Homo sapiens hypothetical gene supported by AK125932 (LOC400593), mR
XM_378675	Homo sapiens hypothetical protein LOC147093 (LOC147093), mRNA
XM_378676	Homo sapiens LOC400598 (LOC400598), mRNA
XM_378678	Homo sapiens hypothetical gene supported by AK055254; BC051705 (LOC4
XM_378680	Homo sapiens hypothetical protein LOC147080 (LOC147080), mRNA
XM_378682	Homo sapiens LOC400602 (LOC400602), mRNA
XM_378683	Homo sapiens hypothetical gene supported by AK000454 (LOC400603), mR
XM_378684	Homo sapiens hypothetical gene supported by BC039664 (LOC400604), mR
XM_378685	Homo sapiens hypothetical gene supported by BC039326 (LOC400605), mR
XM_378686	Homo sapiens hypothetical gene supported by AK126827 (LOC400606), mR
XM_378687	Homo sapiens hypothetical protein LOC339210 (LOC339210), mRNA
XM_378688	Homo sapiens LOC400607 (LOC400607), mRNA
XM_378689	Homo sapiens LOC400611 (LOC400611), mRNA
XM_378692	Homo sapiens hypothetical gene supported by AK094767 (LOC400612), mR
XM_378693	Homo sapiens LOC400614 (LOC400614), mRNA
XM_378694	Homo sapiens hypothetical protein LOC146784 (LOC146784), mRNA
XM_378695	Homo sapiens hypothetical gene supported by BC053686 (LOC400616), mR
XM_378698	Homo sapiens hypothetical gene supported by AK093963 (LOC400617), mR
XM_378700	Homo sapiens hypothetical gene supported by AK094963 (LOC400618), mR
XM_378701	Homo sapiens hypothetical protein LOC146795 (LOC146795), mRNA
XM_378703	Homo sapiens hypothetical gene supported by AK129994 (LOC400619), mR
XM_378705	Homo sapiens hypothetical gene supported by BC035399 (LOC400620), mR
XM_378706	Homo sapiens LOC400621 (LOC400621), mRNA
XM_378708	Homo sapiens hypothetical gene supported by AK130926 (LOC400623), mR
XM_378709	Homo sapiens hypothetical gene supported by AK127023 (LOC400624), mR
XM_378712	Homo sapiens hypothetical protein LOC146713 (LOC146713), mRNA
XM_378713	Homo sapiens hypothetical gene supported by BX648922 (LOC400626), mR
XM_378723	Homo sapiens hypothetical protein FLJ22659 (FLJ22659), mRNA
XM_378724	Homo sapiens hypothetical gene supported by AL832615 (LOC400630), mR
XM_378727	Homo sapiens hypothetical gene supported by BC053686 (LOC400632), mR
XM_378728	Homo sapiens LOC400633 (LOC400633), mRNA
XM_378730	Homo sapiens LOC400638 (LOC400638), mRNA

XM 378734	Homo sapiens hypothetical protein LOC284214 (LOC284214), mRNA
XM 378735	Homo sapiens hypothetical gene supported by BC041875; BX648984 (LOC4
XM 378738	Homo sapiens hypothetical gene supported by AK095347 (LOC400643), mR
XM_378741	Homo sapiens hypothetical gene supported by AK126243 (LOC400644), mR
XM_378742	Homo sapiens hypothetical gene supported by AK127888 (LOC400645), mR
XM 378743	Homo sapiens hypothetical gene supported by BX640930 (LOC400647), mR
XM 378745	Homo sapiens hypothetical gene supported by BC031271 (LOC400648), mR
XM_378746	Homo sapiens hypothetical gene supported by AK126075 (LOC400649), mR
XM_378747	Homo sapiens hypothetical gene supported by AK094936 (LOC400651), mR
XM 378750	Homo sapiens hypothetical gene supported by BC047606 (LOC400653), mR
XM 378751	Homo sapiens hypothetical gene supported by BC042493 (LOC400654), mR
XM 378753	Homo sapiens hypothetical gene supported by BC013370; BC034583 (LOC4
XM_378754	Homo sapiens hypothetical gene supported by BC039507 (LOC400656), mR
XM 378755	Homo sapiens hypothetical gene supported by BC036588 (LOC400657), mR
XM 378756	Homo sapiens hypothetical protein LOC284274 (LOC284274), mRNA
XM 378757	Homo sapiens hypothetical gene supported by AK093936 (LOC400659), mR
XM_378758	Homo sapiens hypothetical gene supported by AK094957 (LOC400660), mR
XM_378760	Homo sapiens hypothetical gene supported by AK055411 (LOC400662), mR
XM_378763	Homo sapiens hypothetical protein LOC284240 (LOC284240), mRNA
XM 378765	Homo sapiens hypothetical gene supported by AK096031 (LOC400667), mR
XM_378766	Homo sapiens LOC400669 (LOC400669), mRNA
XM 378767	Homo sapiens LOC400670 (LOC400670), mRNA
XM 378769	Homo sapiens LOC400671 (LOC400671), mRNA
XM_378770	Homo sapiens hypothetical gene supported by AK001151 (LOC400672), mR
XM 378776	Homo sapiens LOC400675 (LOC400675), mRNA
XM_378777	Homo sapiens hypothetical protein LOC284385 (LOC284385), mRNA
XM 378780	Homo sapiens hypothetical protein LOC126536 (LOC126536), mRNA
XM_378783	Homo sapiens hypothetical gene supported by AK097381; BC040866 (LOC4
XM 378784	Homo sapiens hypothetical gene supported by BC030765 (LOC400683), mR
XM 378786	Homo sapiens hypothetical protein LOC148145 (LOC148145), mRNA
XM_378787	Homo sapiens hypothetical protein LOC284395 (LOC284395), mRNA
XM_378791	Homo sapiens hypothetical protein LOC339316 (LOC339316), mRNA
XM_378793	Homo sapiens hypothetical gene supported by BC000922 (LOC400684), mR
XM_378794	Homo sapiens hypothetical protein LOC284402 (LOC284402), mRNA
XM_378795	Homo sapiens hypothetical gene supported by BC045806 (LOC400685), mR
XM 378796	Homo sapiens hypothetical gene supported by AK125858 (LOC400686), mR
XM 378798	Homo sapiens hypothetical gene supported by AK092138 (LOC400690), mR
XM 378799	Homo sapiens LOC400691 (LOC400691), mRNA
XM_378800	Homo sapiens hypothetical gene supported by BC042546 (LOC400694), mR
XM_378801	Homo sapiens LOC400695 (LOC400695), mRNA
XM 378804	Homo sapiens LOC400700 (LOC400700), mRNA
XM_378805	Homo sapiens LOC400701 (LOC400701), mRNA
XM 378806	Homo sapiens hypothetical gene supported by AK024119 (LOC400702), mR
XM 378807	Homo sapiens hypothetical gene supported by AK054869 (LOC400704), mR
XM_378810	Homo sapiens hypothetical gene supported by AK096622 (LOC400706), mR
XM_378812	Homo sapiens hypothetical gene supported by AK130360 (LOC400710), mR
XM_378815	Homo sapiens LOC400722 (LOC400722), mRNA
XM_378820	Homo sapiens hypothetical gene supported by AK097327; BC037297 (LOC4
XM_378822	Homo sapiens hypothetical protein LOC254099 (LOC254099), mRNA
XM_378823	Homo sapiens hypothetical protein LOC148413 (LOC148413), mRNA
XM_378824	Homo sapiens LOC400729 (LOC400729), mRNA
XM_378825	Homo sapiens hypothetical gene supported by AK097814 (LOC400730), mR
XM_378828	Homo sapiens hypothetical protein LOC115110 (LOC115110), mRNA
XM_378831	Homo sapiens hypothetical gene supported by AK124708 (LOC400732), mR
XM_378832	Homo sapiens hypothetical protein LOC284661 (LOC284661), mRNA
XM_378835	Homo sapiens LOC400733 (LOC400733), mRNA
XM_378837	Homo sapiens hypothetical gene supported by AK091499 (LOC400738), mR

XM_378838	Homo sapiens hypothetical gene supported by AK125737 (LOC400739), mR
XM_378840	Homo sapiens hypothetical gene supported by BC036435 (LOC400740), mR
XM_378841	Homo sapiens LOC400741 (LOC400741), mRNA
XM_378842	Homo sapiens hypothetical gene supported by BC033316 (LOC400742), mR
XM_378843	Homo sapiens hypothetical gene supported by AK127830 (LOC400743), mR
XM_378848	Homo sapiens PNAS-123 (LOC85028), mRNA
XM_378852	Homo sapiens hypothetical gene supported by BC040627 (LOC400748), mR
XM_378855	Homo sapiens hypothetical protein LOC339442 (LOC339442), mRNA
XM_378858	Homo sapiens hypothetical protein LOC339539 (LOC339539), mRNA
XM_378859	Homo sapiens hypothetical gene supported by BC031250 (LOC400751), mR
XM_378860	Homo sapiens hypothetical protein LOC149478 (LOC149478), mRNA
XM_378861	Homo sapiens hypothetical gene supported by BC006119 (LOC400752), mR
XM_378862	Homo sapiens LOC400753 (LOC400753), mRNA
XM_378865	Homo sapiens hypothetical gene supported by BC030752 (LOC400756), mR
XM_378866	Homo sapiens hypothetical protein LOC199899 (LOC199899), mRNA
XM_378873	Homo sapiens LOC400758 (LOC400758), mRNA
XM 378874	Homo sapiens hypothetical gene supported by AK130864 (LOC400761), mR
XM_378876	Homo sapiens hypothetical protein LOC149351 (LOC149351), mRNA
XM_378877	Homo sapiens hypothetical gene supported by AL832786 (LOC400762), mR
XM_378879	Homo sapiens hypothetical gene supported by AK000394 (LOC400763), mR
XM_378880	Homo sapiens hypothetical gene supported by AK094796 (LOC400764), mR
XM_378883	Homo sapiens hypothetical gene supported by BC051808 (LOC400768), mR
XM_378886	Homo sapiens hypothetical protein LOC284475 (LOC284475), mRNA
XM_378889	Homo sapiens hypothetical gene supported by AK090412 (LOC400770), mR
XM_378890	Homo sapiens hypothetical gene supported by AK098337; BC022881 (LOC4
XM_378891	Homo sapiens hypothetical gene supported by BC012753 (LOC400772), mR
XM_378892	Homo sapiens LOC400775 (LOC400775), mRNA
XM_378893	Homo sapiens hypothetical gene supported by AK125616 (LOC400777), mR
XM_378894	Homo sapiens LOC400778 (LOC400778), mRNA
XM_378897	Homo sapiens LOC400781 (LOC400781), mRNA
	Homo sapiens 200400701 (200400701), militari
XM_378898	Homo sapiens LOC400782 (LOC400782), mRNA
XM_378898 XM_378899	Homo sapiens LOC400782 (LOC400782), mRNA Homo sapiens LOC400783 (LOC400783), mRNA
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XM_378899	Homo sapiens LOC400782 (LOC400782), mRNA Homo sapiens LOC400783 (LOC400783), mRNA Homo sapiens hypothetical gene supported by M60502 (LOC400786), mRN/ Homo sapiens LOC400789 (LOC400789), mRNA
XM_378899 XM_378901	Homo sapiens LOC400782 (LOC400782), mRNA Homo sapiens LOC400783 (LOC400783), mRNA Homo sapiens hypothetical gene supported by M60502 (LOC400786), mRN/ Homo sapiens LOC400789 (LOC400789), mRNA Homo sapiens hypothetical gene supported by AK094742; AK128347 (LOC4
XM_378899 XM_378901 XM_378903	Homo sapiens LOC400782 (LOC400782), mRNA Homo sapiens LOC400783 (LOC400783), mRNA Homo sapiens hypothetical gene supported by M60502 (LOC400786), mRN/ Homo sapiens LOC400789 (LOC400789), mRNA Homo sapiens hypothetical gene supported by AK094742; AK128347 (LOC4 Homo sapiens hypothetical gene supported by AK125122 (LOC400793), mR
XM_378899 XM_378901 XM_378903 XM_378905	Homo sapiens LOC400782 (LOC400782), mRNA Homo sapiens LOC400783 (LOC400783), mRNA Homo sapiens hypothetical gene supported by M60502 (LOC400786), mRN/ Homo sapiens LOC400789 (LOC400789), mRNA Homo sapiens hypothetical gene supported by AK094742; AK128347 (LOC4 Homo sapiens hypothetical gene supported by AK125122 (LOC400793), mR Homo sapiens hypothetical gene supported by BC030596 (LOC400794), mR
XM_378899 XM_378901 XM_378903 XM_378905 XM_378908	Homo sapiens LOC400782 (LOC400782), mRNA Homo sapiens LOC400783 (LOC400783), mRNA Homo sapiens hypothetical gene supported by M60502 (LOC400786), mRN/ Homo sapiens LOC400789 (LOC400789), mRNA Homo sapiens hypothetical gene supported by AK094742; AK128347 (LOC4 Homo sapiens hypothetical gene supported by AK125122 (LOC400793), mR Homo sapiens hypothetical gene supported by BC030596 (LOC400794), mR Homo sapiens hypothetical gene supported by AK000073 (LOC400795), mR
XM_378899 XM_378901 XM_378903 XM_378905 XM_378908 XM_378909	Homo sapiens LOC400782 (LOC400782), mRNA Homo sapiens LOC400783 (LOC400783), mRNA Homo sapiens hypothetical gene supported by M60502 (LOC400786), mRN/ Homo sapiens LOC400789 (LOC400789), mRNA Homo sapiens hypothetical gene supported by AK094742; AK128347 (LOC4 Homo sapiens hypothetical gene supported by AK125122 (LOC400793), mR Homo sapiens hypothetical gene supported by BC030596 (LOC400794), mR Homo sapiens hypothetical gene supported by AK000073 (LOC400795), mR Homo sapiens hypothetical protein LOC284688 (LOC284688), mRNA
XM_378899 XM_378901 XM_378903 XM_378905 XM_378908 XM_378910 XM_378912 XM_378914	Homo sapiens LOC400782 (LOC400782), mRNA Homo sapiens LOC400783 (LOC400783), mRNA Homo sapiens hypothetical gene supported by M60502 (LOC400786), mRN/ Homo sapiens LOC400789 (LOC400789), mRNA Homo sapiens hypothetical gene supported by AK094742; AK128347 (LOC4 Homo sapiens hypothetical gene supported by AK125122 (LOC400793), mR Homo sapiens hypothetical gene supported by BC030596 (LOC400794), mR Homo sapiens hypothetical gene supported by AK000073 (LOC400795), mR Homo sapiens hypothetical protein LOC284688 (LOC284688), mRNA Homo sapiens KIAA0492 protein (KIAA0492), mRNA
XM_378899 XM_378901 XM_378903 XM_378905 XM_378908 XM_378910 XM_378910 XM_378914 XM_378917	Homo sapiens LOC400782 (LOC400782), mRNA Homo sapiens LOC400783 (LOC400783), mRNA Homo sapiens hypothetical gene supported by M60502 (LOC400786), mRN/ Homo sapiens LOC400789 (LOC400789), mRNA Homo sapiens hypothetical gene supported by AK094742; AK128347 (LOC4 Homo sapiens hypothetical gene supported by AK125122 (LOC400793), mR Homo sapiens hypothetical gene supported by BC030596 (LOC400794), mR Homo sapiens hypothetical gene supported by AK000073 (LOC400795), mR Homo sapiens hypothetical protein LOC284688 (LOC284688), mRNA Homo sapiens KIAA0492 protein (KIAA0492), mRNA Homo sapiens LOC400796 (LOC400796), mRNA
XM_378899 XM_378901 XM_378903 XM_378905 XM_378909 XM_378910 XM_378912 XM_378914 XM_378917 XM_378918	Homo sapiens LOC400782 (LOC400782), mRNA Homo sapiens LOC400783 (LOC400783), mRNA Homo sapiens hypothetical gene supported by M60502 (LOC400786), mRN/ Homo sapiens LOC400789 (LOC400789), mRNA Homo sapiens hypothetical gene supported by AK094742; AK128347 (LOC4 Homo sapiens hypothetical gene supported by AK125122 (LOC400793), mR Homo sapiens hypothetical gene supported by BC030596 (LOC400794), mR Homo sapiens hypothetical gene supported by AK000073 (LOC400795), mR Homo sapiens hypothetical protein LOC284688 (LOC284688), mRNA Homo sapiens KIAA0492 protein (KIAA0492), mRNA Homo sapiens LOC400796 (LOC400796), mRNA Homo sapiens hypothetical gene supported by AK125993 (LOC400797), mR
XM_378899 XM_378901 XM_378903 XM_378905 XM_378909 XM_378910 XM_378912 XM_378914 XM_378917 XM_378918 XM_378919	Homo sapiens LOC400782 (LOC400782), mRNA Homo sapiens LOC400783 (LOC400783), mRNA Homo sapiens hypothetical gene supported by M60502 (LOC400786), mRN/ Homo sapiens LOC400789 (LOC400789), mRNA Homo sapiens hypothetical gene supported by AK094742; AK128347 (LOC4 Homo sapiens hypothetical gene supported by AK125122 (LOC400793), mR Homo sapiens hypothetical gene supported by BC030596 (LOC400794), mR Homo sapiens hypothetical gene supported by AK000073 (LOC400795), mR Homo sapiens hypothetical protein LOC284688 (LOC284688), mRNA Homo sapiens KIAA0492 protein (KIAA0492), mRNA Homo sapiens hypothetical gene supported by AK125993 (LOC400797), mR Homo sapiens hypothetical gene supported by AK125993 (LOC400797), mR Homo sapiens hypothetical gene supported by AK092849 (LOC400798), mR
XM_378899 XM_378901 XM_378903 XM_378905 XM_378909 XM_378910 XM_378912 XM_378914 XM_378917 XM_378918	Homo sapiens LOC400782 (LOC400782), mRNA Homo sapiens LOC400783 (LOC400783), mRNA Homo sapiens hypothetical gene supported by M60502 (LOC400786), mRN/ Homo sapiens LOC400789 (LOC400789), mRNA Homo sapiens hypothetical gene supported by AK094742; AK128347 (LOC4 Homo sapiens hypothetical gene supported by AK125122 (LOC400793), mR Homo sapiens hypothetical gene supported by BC030596 (LOC400794), mR Homo sapiens hypothetical gene supported by AK000073 (LOC400795), mR Homo sapiens hypothetical protein LOC284688 (LOC284688), mRNA Homo sapiens KIAA0492 protein (KIAA0492), mRNA Homo sapiens hypothetical gene supported by AK125993 (LOC400797), mR Homo sapiens hypothetical gene supported by AK092849 (LOC400798), mR Homo sapiens hypothetical gene supported by AK092849 (LOC400798), mR Homo sapiens hypothetical protein LOC148756 (LOC148756), mRNA
XM_378899 XM_378901 XM_378903 XM_378905 XM_378908 XM_378910 XM_378912 XM_378914 XM_378917 XM_378918 XM_378919 XM_378921 XM_378923	Homo sapiens LOC400782 (LOC400782), mRNA Homo sapiens LOC400783 (LOC400783), mRNA Homo sapiens hypothetical gene supported by M60502 (LOC400786), mRN/ Homo sapiens LOC400789 (LOC400789), mRNA Homo sapiens hypothetical gene supported by AK094742; AK128347 (LOC4 Homo sapiens hypothetical gene supported by AK125122 (LOC400793), mR Homo sapiens hypothetical gene supported by BC030596 (LOC400794), mR Homo sapiens hypothetical gene supported by AK000073 (LOC400795), mR Homo sapiens hypothetical protein LOC284688 (LOC284688), mRNA Homo sapiens KIAA0492 protein (KIAA0492), mRNA Homo sapiens hypothetical gene supported by AK125993 (LOC400797), mR Homo sapiens hypothetical gene supported by AK092849 (LOC400798), mR Homo sapiens hypothetical gene supported by AK092849 (LOC400798), mR Homo sapiens hypothetical protein LOC148756 (LOC148756), mRNA Homo sapiens hypothetical protein LOC148756 (LOC148756), mRNA
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XM_378899 XM_378901 XM_378905 XM_378908 XM_378909 XM_378910 XM_378912 XM_378914 XM_378917 XM_378918 XM_378919 XM_378921 XM_378923 XM_378925 XM_378930	Homo sapiens LOC400782 (LOC400782), mRNA Homo sapiens LOC400783 (LOC400783), mRNA Homo sapiens hypothetical gene supported by M60502 (LOC400786), mRN/ Homo sapiens LOC400789 (LOC400789), mRNA Homo sapiens hypothetical gene supported by AK094742; AK128347 (LOC4 Homo sapiens hypothetical gene supported by AK125122 (LOC400793), mR Homo sapiens hypothetical gene supported by BC030596 (LOC400794), mR Homo sapiens hypothetical gene supported by AK000073 (LOC400795), mR Homo sapiens hypothetical protein LOC284688 (LOC284688), mRNA Homo sapiens KIAA0492 protein (KIAA0492), mRNA Homo sapiens hypothetical gene supported by AK125993 (LOC400797), mR Homo sapiens hypothetical gene supported by AK092849 (LOC400798), mR Homo sapiens hypothetical protein LOC148756 (LOC148756), mRNA Homo sapiens hypothetical protein LOC339476 (LOC339476), mRNA Homo sapiens hypothetical gene supported by AK125573 (LOC400800), mR Homo sapiens hypothetical gene supported by AK097184 (LOC400800), mR
XM_378899 XM_378901 XM_378905 XM_378908 XM_378909 XM_378910 XM_378912 XM_378914 XM_378917 XM_378918 XM_378919 XM_378921 XM_378923 XM_378925 XM_378930 XM_378933	Homo sapiens LOC400782 (LOC400782), mRNA Homo sapiens LOC400783 (LOC400783), mRNA Homo sapiens hypothetical gene supported by M60502 (LOC400786), mRN/ Homo sapiens LOC400789 (LOC400789), mRNA Homo sapiens hypothetical gene supported by AK094742; AK128347 (LOC4 Homo sapiens hypothetical gene supported by AK125122 (LOC400793), mR Homo sapiens hypothetical gene supported by BC030596 (LOC400794), mR Homo sapiens hypothetical gene supported by AK000073 (LOC400795), mR Homo sapiens hypothetical protein LOC284688 (LOC284688), mRNA Homo sapiens KIAA0492 protein (KIAA0492), mRNA Homo sapiens hypothetical gene supported by AK125993 (LOC400797), mR Homo sapiens hypothetical gene supported by AK092849 (LOC400798), mR Homo sapiens hypothetical protein LOC148756 (LOC148756), mRNA Homo sapiens hypothetical protein LOC339476 (LOC339476), mRNA Homo sapiens hypothetical gene supported by AK125573 (LOC400800), mR Homo sapiens hypothetical gene supported by AK097184 (LOC400801), mR Homo sapiens LOC400802 (LOC400802), mRNA
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XM_378899 XM_378901 XM_378903 XM_378905 XM_378909 XM_378910 XM_378912 XM_378914 XM_378917 XM_378918 XM_378921 XM_378921 XM_378923 XM_378930 XM_378933 XM_378934 XM_378941 XM_378941 XM_378941 XM_378945	Homo sapiens LOC400782 (LOC400782), mRNA Homo sapiens LOC400783 (LOC400783), mRNA Homo sapiens hypothetical gene supported by M60502 (LOC400786), mRN/ Homo sapiens LOC400789 (LOC400789), mRNA Homo sapiens hypothetical gene supported by AK094742; AK128347 (LOC4 Homo sapiens hypothetical gene supported by AK125122 (LOC400793), mR Homo sapiens hypothetical gene supported by BC030596 (LOC400794), mR Homo sapiens hypothetical gene supported by AK000073 (LOC400795), mR Homo sapiens hypothetical protein LOC284688 (LOC284688), mRNA Homo sapiens KIAA0492 protein (KIAA0492), mRNA Homo sapiens hypothetical gene supported by AK125993 (LOC400797), mR Homo sapiens hypothetical gene supported by AK125993 (LOC400797), mR Homo sapiens hypothetical gene supported by AK092849 (LOC400798), mR Homo sapiens hypothetical protein LOC148756 (LOC148756), mRNA Homo sapiens hypothetical gene supported by AK125573 (LOC400800), mR Homo sapiens hypothetical gene supported by AK097184 (LOC400801), mR Homo sapiens LOC400802 (LOC400802), mRNA Homo sapiens LOC400803 (LOC400803), mRNA Homo sapiens hypothetical protein LOC339535 (LOC339535), mRNA Homo sapiens hypothetical protein LOC339535 (LOC339535), mRNA Homo sapiens hypothetical protein LOC149134 (LOC149134), mRNA
XM_378899 XM_378901 XM_378903 XM_378905 XM_378909 XM_378910 XM_378912 XM_378914 XM_378917 XM_378918 XM_378921 XM_378921 XM_378923 XM_378930 XM_378933 XM_378934 XM_378941 XM_378945 XM_378946	Homo sapiens LOC400782 (LOC400782), mRNA Homo sapiens LOC400783 (LOC400783), mRNA Homo sapiens hypothetical gene supported by M60502 (LOC400786), mRN/ Homo sapiens LOC400789 (LOC400789), mRNA Homo sapiens hypothetical gene supported by AK094742; AK128347 (LOC4 Homo sapiens hypothetical gene supported by AK125122 (LOC400793), mR Homo sapiens hypothetical gene supported by BC030596 (LOC400794), mR Homo sapiens hypothetical gene supported by AK000073 (LOC400795), mR Homo sapiens hypothetical protein LOC284688 (LOC284688), mRNA Homo sapiens KIAA0492 protein (KIAA0492), mRNA Homo sapiens hypothetical gene supported by AK125993 (LOC400797), mR Homo sapiens hypothetical gene supported by AK125993 (LOC400797), mR Homo sapiens hypothetical gene supported by AK092849 (LOC400798), mRNA Homo sapiens hypothetical protein LOC148756 (LOC148756), mRNA Homo sapiens hypothetical gene supported by AK125573 (LOC400800), mR Homo sapiens hypothetical gene supported by AK097184 (LOC400801), mR Homo sapiens LOC400802 (LOC400802), mRNA Homo sapiens LOC400803 (LOC400803), mRNA Homo sapiens hypothetical protein LOC339535 (LOC339535), mRNA Homo sapiens hypothetical protein LOC149134 (LOC149134), mRNA Homo sapiens hypothetical gene supported by AK096414 (LOC400812), mR
XM_378899 XM_378901 XM_378905 XM_378908 XM_378909 XM_378910 XM_378912 XM_378914 XM_378917 XM_378918 XM_378921 XM_378921 XM_378921 XM_378930 XM_378930 XM_378934 XM_378941 XM_378945 XM_378946 XM_378947	Homo sapiens LOC400782 (LOC400782), mRNA Homo sapiens LOC400783 (LOC400783), mRNA Homo sapiens hypothetical gene supported by M60502 (LOC400786), mRN/ Homo sapiens LOC400789 (LOC400789), mRNA Homo sapiens hypothetical gene supported by AK094742; AK128347 (LOC4 Homo sapiens hypothetical gene supported by AK125122 (LOC400793), mR Homo sapiens hypothetical gene supported by BC030596 (LOC400794), mR Homo sapiens hypothetical gene supported by AK000073 (LOC400795), mR Homo sapiens hypothetical protein LOC284688 (LOC284688), mRNA Homo sapiens KIAA0492 protein (KIAA0492), mRNA Homo sapiens hypothetical gene supported by AK125993 (LOC400797), mR Homo sapiens hypothetical gene supported by AK125993 (LOC400797), mR Homo sapiens hypothetical protein LOC148756 (LOC148756), mRNA Homo sapiens hypothetical protein LOC148756 (LOC339476), mRNA Homo sapiens hypothetical gene supported by AK125573 (LOC400800), mR Homo sapiens hypothetical gene supported by AK097184 (LOC400801), mR Homo sapiens LOC400802 (LOC400802), mRNA Homo sapiens LOC400803 (LOC400803), mRNA Homo sapiens hypothetical protein LOC339535 (LOC339535), mRNA Homo sapiens hypothetical protein LOC149134 (LOC400812), mRNA Homo sapiens hypothetical gene supported by AK096414 (LOC400812), mR
XM_378899 XM_378901 XM_378905 XM_378908 XM_378909 XM_378910 XM_378912 XM_378914 XM_378917 XM_378918 XM_378921 XM_378921 XM_378923 XM_378930 XM_378933 XM_378934 XM_378941 XM_378945 XM_378947 XM_378947 XM_378949	Homo sapiens LOC400782 (LOC400782), mRNA Homo sapiens LOC400783 (LOC400783), mRNA Homo sapiens hypothetical gene supported by M60502 (LOC400786), mRN/ Homo sapiens LOC400789 (LOC400789), mRNA Homo sapiens hypothetical gene supported by AK094742; AK128347 (LOC4 Homo sapiens hypothetical gene supported by AK125122 (LOC400793), mR Homo sapiens hypothetical gene supported by BC030596 (LOC400794), mR Homo sapiens hypothetical gene supported by AK000073 (LOC400795), mR Homo sapiens hypothetical protein LOC284688 (LOC284688), mRNA Homo sapiens KIAA0492 protein (KIAA0492), mRNA Homo sapiens hypothetical gene supported by AK125993 (LOC400797), mR Homo sapiens hypothetical gene supported by AK125993 (LOC400797), mR Homo sapiens hypothetical gene supported by AK092849 (LOC400798), mRNA Homo sapiens hypothetical protein LOC148756 (LOC148756), mRNA Homo sapiens hypothetical gene supported by AK125573 (LOC400800), mR Homo sapiens hypothetical gene supported by AK097184 (LOC400801), mR Homo sapiens LOC400802 (LOC400802), mRNA Homo sapiens LOC400803 (LOC400803), mRNA Homo sapiens hypothetical protein LOC339535 (LOC339535), mRNA Homo sapiens hypothetical protein LOC149134 (LOC400812), mR Homo sapiens hypothetical gene supported by AK096414 (LOC400812), mR Homo sapiens hypothetical protein LOC149134 (LOC400812), mR Homo sapiens similar to hypothetical protein LOC148413 (LOC400817), mR
XM_378899 XM_378901 XM_378905 XM_378908 XM_378909 XM_378910 XM_378912 XM_378914 XM_378917 XM_378918 XM_378921 XM_378921 XM_378925 XM_378930 XM_378930 XM_378934 XM_378941 XM_378945 XM_378947 XM_378949 XM_378949 XM_378950	Homo sapiens LOC400782 (LOC400782), mRNA Homo sapiens LOC400783 (LOC400783), mRNA Homo sapiens hypothetical gene supported by M60502 (LOC400786), mRN/ Homo sapiens LOC400789 (LOC400789), mRNA Homo sapiens hypothetical gene supported by AK094742; AK128347 (LOC4 Homo sapiens hypothetical gene supported by AK125122 (LOC400793), mR Homo sapiens hypothetical gene supported by BC030596 (LOC400794), mR Homo sapiens hypothetical gene supported by AK000073 (LOC400795), mR Homo sapiens hypothetical protein LOC284688 (LOC284688), mRNA Homo sapiens KIAA0492 protein (KIAA0492), mRNA Homo sapiens LOC400796 (LOC400796), mRNA Homo sapiens hypothetical gene supported by AK125993 (LOC400797), mR Homo sapiens hypothetical gene supported by AK092849 (LOC400798), mR Homo sapiens hypothetical protein LOC148756 (LOC148756), mRNA Homo sapiens hypothetical gene supported by AK125573 (LOC400800), mR Homo sapiens hypothetical gene supported by AK097184 (LOC400801), mR Homo sapiens LOC400802 (LOC400802), mRNA Homo sapiens hypothetical protein LOC339535 (LOC339535), mRNA Homo sapiens hypothetical protein LOC339535 (LOC339535), mRNA Homo sapiens hypothetical protein LOC149134 (LOC400812), mR Homo sapiens hypothetical gene supported by AK096414 (LOC400812), mR Homo sapiens hypothetical protein LOC149134 (LOC400817), mR Homo sapiens similar to hypothetical protein LOC148413 (LOC400817), mR
XM_378899 XM_378901 XM_378905 XM_378908 XM_378909 XM_378910 XM_378912 XM_378914 XM_378917 XM_378918 XM_378921 XM_378921 XM_378923 XM_378930 XM_378930 XM_378934 XM_378941 XM_378945 XM_378947 XM_378947 XM_378949 XM_378950 XM_378950 XM_378950 XM_378951	Homo sapiens LOC400782 (LOC400782), mRNA Homo sapiens LOC400783 (LOC400783), mRNA Homo sapiens hypothetical gene supported by M60502 (LOC400786), mRN/ Homo sapiens LOC400789 (LOC400789), mRNA Homo sapiens hypothetical gene supported by AK094742; AK128347 (LOC4 Homo sapiens hypothetical gene supported by AK125122 (LOC400793), mR Homo sapiens hypothetical gene supported by BC030596 (LOC400794), mR Homo sapiens hypothetical gene supported by AK000073 (LOC400795), mR Homo sapiens hypothetical protein LOC284688 (LOC284688), mRNA Homo sapiens KIAA0492 protein (KIAA0492), mRNA Homo sapiens LOC400796 (LOC400796), mRNA Homo sapiens hypothetical gene supported by AK125993 (LOC400797), mR Homo sapiens hypothetical gene supported by AK092849 (LOC400798), mRNA Homo sapiens hypothetical protein LOC148756 (LOC148756), mRNA Homo sapiens hypothetical gene supported by AK125573 (LOC400800), mR Homo sapiens hypothetical gene supported by AK097184 (LOC400801), mR Homo sapiens LOC400802 (LOC400802), mRNA Homo sapiens hypothetical protein LOC339535 (LOC339535), mRNA Homo sapiens hypothetical protein LOC339535 (LOC339535), mRNA Homo sapiens hypothetical protein LOC149134 (LOC400812), mR Homo sapiens hypothetical gene supported by AK096414 (LOC400812), mR Homo sapiens hypothetical gene supported by AK096414 (LOC400817), mR Homo sapiens similar to hypothetical protein LOC148413 (LOC400817), mR Homo sapiens hypothetical gene supported by AK097814 (LOC400817), mR Homo sapiens hypothetical gene supported by AK097814 (LOC400817), mR
XM_378899 XM_378901 XM_378905 XM_378908 XM_378909 XM_378910 XM_378912 XM_378914 XM_378917 XM_378918 XM_378921 XM_378921 XM_378925 XM_378930 XM_378930 XM_378934 XM_378941 XM_378945 XM_378947 XM_378949 XM_378949 XM_378950	Homo sapiens LOC400782 (LOC400782), mRNA Homo sapiens LOC400783 (LOC400783), mRNA Homo sapiens hypothetical gene supported by M60502 (LOC400786), mRN/ Homo sapiens LOC400789 (LOC400789), mRNA Homo sapiens hypothetical gene supported by AK094742; AK128347 (LOC4 Homo sapiens hypothetical gene supported by AK125122 (LOC400793), mR Homo sapiens hypothetical gene supported by BC030596 (LOC400794), mR Homo sapiens hypothetical gene supported by AK000073 (LOC400795), mR Homo sapiens hypothetical protein LOC284688 (LOC284688), mRNA Homo sapiens KIAA0492 protein (KIAA0492), mRNA Homo sapiens LOC400796 (LOC400796), mRNA Homo sapiens hypothetical gene supported by AK125993 (LOC400797), mR Homo sapiens hypothetical gene supported by AK092849 (LOC400798), mR Homo sapiens hypothetical protein LOC148756 (LOC148756), mRNA Homo sapiens hypothetical gene supported by AK125573 (LOC400800), mR Homo sapiens hypothetical gene supported by AK097184 (LOC400801), mR Homo sapiens LOC400802 (LOC400802), mRNA Homo sapiens hypothetical protein LOC339535 (LOC339535), mRNA Homo sapiens hypothetical protein LOC339535 (LOC339535), mRNA Homo sapiens hypothetical protein LOC149134 (LOC400812), mR Homo sapiens hypothetical gene supported by AK096414 (LOC400812), mR Homo sapiens hypothetical protein LOC149134 (LOC400817), mR Homo sapiens similar to hypothetical protein LOC148413 (LOC400817), mR

XM_378955	Homo sapiens LOC400829 (LOC400829), mRNA
XM_378956	Homo sapiens hypothetical gene supported by AK092524 (LOC400831), mR
XM_378957	Homo sapiens LOC400832 (LOC400832), mRNA
XM_378961	Homo sapiens LOC400835 (LOC400835), mRNA
XM_378964	Homo sapiens hypothetical protein LOC339593 (LOC339593), mRNA
XM_378969	Homo sapiens hypothetical protein LOC284788 (LOC284788), mRNA
XM_378970	Homo sapiens hypothetical gene supported by AK090900 (LOC400839), mR
XM_378971	Homo sapiens hypothetical protein LOC284798 (LOC284798), mRNA
XM_378973	Homo sapiens hypothetical protein LOC284801 (LOC284801), mRNA
XM_378974	Homo sapiens hypothetical gene supported by AK127732 (LOC400841), mR
XM_378976	Homo sapiens LOC400843 (LOC400843), mRNA
XM_378977	Homo sapiens hypothetical gene supported by AK124127 (LOC400844), mR
XM_378978	Homo sapiens hypothetical gene supported by AK090932 (LOC400845), mR
XM_378980	Homo sapiens hypothetical protein LOC339568 (LOC339568), mRNA
XM_378981	Homo sapiens hypothetical gene supported by AK127953 (LOC400846), mR
XM_378982	Homo sapiens hypothetical gene supported by AL832259; BC035164 (LOC4
XM_378983	Homo sapiens hypothetical protein LOC284749 (LOC284749), mRNA
XM_378985	Homo sapiens hypothetical protein LOC284751 (LOC284751), mRNA
XM_378988	Homo sapiens LOC400849 (LOC400849), mRNA
XM_378989	Homo sapiens hypothetical gene supported by AK126744 (LOC400850), mR
XM_378992	Homo sapiens hypothetical gene supported by BC015673 (LOC400851), mR
XM_378993	Homo sapiens hypothetical gene supported by AK124784 (LOC400852), mR
XM_378994	Homo sapiens hypothetical gene supported by AK125376 (LOC400853), mR
XM_379002	Homo sapiens LOC400863 (LOC400863), mRNA
XM_379003	Homo sapiens LOC400862 (LOC400862), mRNA Homo sapiens hypothetical gene supported by AK127913 (LOC400863), mR
XM_379004	Homo sapiens hypothetical gene supported by AK127913 (LOC400665), mR
XM_379006	Homo saplens hypothetical gene supported by AY204750 (LOC400866), mR
XM_379009	Homo sapiens hypothetical protein LOC284835 (LOC284835), mRNA
XM_379011 XM_379012	Homo sapiens hypothetical gene supported by BC033260 (LOC400868), mR
XM_379012 XM_379014	Homo sapiens LOC400869 (LOC400869), mRNA
XM_379015	Homo sapiens hypothetical gene supported by AK123727 (LOC400870), mR
XM_379016	Homo sapiens hypothetical gene supported by AK057962 (LOC400871), mR
XM_379017	Homo sapiens LOC400872 (LOC400872), mRNA
XM 379018	Homo sapiens hypothetical gene supported by BX648824 (LOC400873), mR
XM 379020	Homo sapiens hypothetical gene supported by AK096268 (LOC400874), mR
XM 379021	Homo sapiens chromosome 21 open reading frame 30 (C21orf30), mRNA
XM 379022	Homo sapiens hypothetical gene supported by BC040064 (LOC400875), mR
XM 379023	Homo sapiens hypothetical gene supported by BC036902 (LOC400876), mR
XM 379025	Homo sapiens LOC400877 (LOC400877), mRNA
XM_379029	Homo sapiens hypothetical gene supported by AK096951 (LOC400879), mR
XM_379030	Homo sapiens hypothetical gene supported by AY338954 (LOC400880), mR
XM_379032	Homo sapiens hypothetical gene supported by BC021738 (LOC400885), mR
XM_379036	Homo sapiens LOC400890 (LOC400890), mRNA
XM_379040	Homo sapiens hypothetical gene supported by AK097628 (LOC400919), mR
XM_379041	Homo sapiens hypothetical gene supported by BC040576 (LOC400920), mR
XM_379044	
XM_379046	Homo sapiens LOC400923 (LOC400923), mRNA
XM_379052	Homo sapiens hypothetical gene supported by AK075161 (LOC400926), mR
XM_379054	Homo sapiens hypothetical protein LOC339674 (LOC339674), mRNA
XM_379055	
XM_379060	
XM_379064	
XM_379065	
XM_379068	Homo sapiens hypothetical gene supported by BC055007 (LOC400937), mR
XM_379069	
XM_379072	Homo sapiens LOC400939 (LOC400939), mRNA

XM 379073	Homo sapiens hypothetical protein LOC386597 (LOC386597), mRNA
XM_379074	Homo sapiens hypothetical protein LOC339788 (LOC339788), mRNA
XM 379075	Homo sapiens hypothetical gene supported by BX641130 (LOC400942), mR
XM_379077	Homo sapiens LOC400944 (LOC400944), mRNA
XM_379078	Homo sapiens hypothetical gene supported by AK123475 (LOC400945), mR
XM_379079	Homo sapiens hypothetical gene supported by AK022396; AK097927 (LOC4
XM 379080	Homo sapiens LOC400947 (LOC400947), mRNA
XM 379085	Homo sapiens hypothetical protein LOC285043 (LOC285043), mRNA
XM 379086	Homo sapiens hypothetical protein LOC285045 (LOC285045), mRNA
XM_379089	Homo sapiens LOC400951 (LOC400951), mRNA
XM 379094	Homo sapiens hypothetical gene supported by BX647332 (LOC400953), mR
XM 379096	Homo sapiens hypothetical gene supported by AL832565 (LOC400955), mR
XM_379097	Homo sapiens hypothetical gene supported by AK122786 (LOC400957), mR
XM_379098	Homo sapiens hypothetical protein LOC339803 (LOC339803), mRNA
XM_379099	Homo sapiens hypothetical protein LOC339807 (LOC339807), mRNA
XM_379100	Homo sapiens hypothetical gene supported by BC037562 (LOC400958), mR
XM_379101	Homo sapiens hypothetical gene supported by BC033059 (LOC400959), mR
XM_379102	Homo sapiens hypothetical gene supported by BC040598 (LOC400960), mR
XM_379106	Homo sapiens hypothetical gene supported by BC044795 (LOC400964), mR
XM_379108	Homo sapiens LOC400969 (LOC400969), mRNA
XM_379109	Homo sapiens hypothetical gene supported by AK127783 (LOC400983), mR
XM_379111	Homo sapiens hypothetical protein LOC285033 (LOC285033), mRNA
XM_379112	Homo sapiens LOC400988 (LOC400988), mRNA
XM_379113	Homo sapiens hypothetical gene supported by BC040181 (LOC400990), mR
XM_379114	Homo sapiens hypothetical protein LOC150577 (LOC150577), mRNA
XM_379117	Homo sapiens hypothetical protein LOC150568 (LOC150568), mRNA
XM_379118	Homo sapiens hypothetical gene supported by AK095498 (LOC400992), mR
XM_379119	Homo sapiens hypothetical protein LOC285000 (LOC285000), mRNA
XM_379121	Homo sapiens hypothetical gene supported by AK056084; AK095678; NM_1
XM_379122	Homo sapiens hypothetical gene supported by AK125994 (LOC400997), mR
XM_379123	Homo sapiens hypothetical gene supported by AK124342 (LOC400999), mR
XM_379131	Homo sapiens LOC401001 (LOC401001), mRNA
XM_379133	Homo sapiens hypothetical protein LOC151121 (LOC151121), mRNA
XM_379135	Homo sapiens hypothetical gene supported by AK093281 (LOC401005), mR
XM_379136	Homo sapiens hypothetical gene supported by AK093281 (LOC401006), mR
XM_379141	Homo sapiens hypothetical gene supported by BC043549; BX648102 (LOC4
XM_379145	Homo sapiens hypothetical gene supported by AK092134 (LOC401020), mR
XM_379146	Homo sapiens hypothetical gene supported by BC047605 (LOC401021), mR
XM_379147	Homo sapiens hypothetical gene supported by BC030713; BC047481 (LOC4
XM_379149	Homo sapiens LOC401025 (LOC401025), mRNA
XM_379154	Homo sapiens hypothetical protein LOC151300 (LOC151300), mRNA
XM_379156	Homo sapiens LOC401032 (LOC401032), mRNA
XM_379158	Homo sapiens hypothetical gene supported by AK055016 (LOC401033), mR
XM_379159	Homo sapiens hypothetical protein LOC151484 (LOC151484), mRNA
XM_379161	Homo sapiens hypothetical gene supported by AK056246 (LOC401037), mR
XM_379163	Homo sapiens hypothetical gene supported by AK057585 (LOC401038), mR
XM_379164	Homo sapiens hypothetical protein LOC151171 (LOC151171), mRNA
XM_379166	Homo saplens hypothetical gene supported by AK056439 (LOC401041), mR
XM_379167	Homo sapiens LOC401042 (LOC401042), mRNA
XM_379168	Homo sapiens LOC401043 (LOC401043), mRNA
XM_379169	Homo sapiens hypothetical gene supported by AK098031 (LOC401044), mR
XM_379170	Homo sapiens LOC401046 (LOC401046), mRNA
XM_379171	Homo sapiens LOC401048 (LOC401048), mRNA
XM_379172	Homo sapiens hypothetical gene supported by AK124857 (LOC401049), mR
XM_379173	Homo sapiens hypothetical gene supported by AK1 24088 (LOC401050), mR
XM_379174	Homo sapiens LOC401051 (LOC401051), mRNA Homo sapiens hypothetical gene supported by AK022260 (LOC401052), mR
XM_379175	Fromo saprens hypothetical gene supported by AROZZZZOO (LOO40100Z), mix

XM_379177	Homo sapiens hypothetical gene supported by BC041425 (LOC401053), mR
XM_379179	Homo sapiens hypothetical protein LOC152274 (LOC152274), mRNA
XM_379180	Homo sapiens LOC401056 (LOC401056), mRNA
XM_379181	Homo sapiens LOC401057 (LOC401057), mRNA
XM_379182	Homo sapiens LOC401058 (LOC401058), mRNA
XM 379183	Homo sapiens hypothetical protein LOC152024 (LOC152024), mRNA
_	
XM_379184	Homo sapiens hypothetical gene supported by AK096885; AK098084 (LOC4
XM_379189	Homo sapiens hypothetical gene supported by AK057338 (LOC401061), mR
XM_379190	Homo sapiens hypothetical gene supported by AK092973 (LOC401062), mR
XM_379191	Homo sapiens LOC401065 (LOC401065), mRNA
XM_379192	Homo sapiens LOC401066 (LOC401066), mRNA
XM_379194	Homo sapiens hypothetical gene supported by BC028186 (LOC401068), mR
XM_379195	Homo sapiens hypothetical protein LOC285401 (LOC285401), mRNA
XM_379196	Homo sapiens hypothetical protein LOC151877 (LOC151877), mRNA
XM_379197	Homo sapiens hypothetical gene supported by AL832401 (LOC401073), mR
XM_379198	Homo sapiens hypothetical protein LOC285286 (LOC285286), mRNA
XM_379200	Homo sapiens LOC401078 (LOC401078), mRNA
XM_379201	Homo sapiens LOC401079 (LOC401079), mRNA
XM_379203	Homo sapiens hypothetical protein LOC348801 (LOC348801), mRNA
XM_379204	Homo sapiens hypothetical protein LOC152225 (LOC152225), mRNA
XM_379205	Homo sapiens hypothetical protein LOC151658 (LOC151658), mRNA
XM_379206	Homo sapiens hypothetical gene supported by AK026416 (LOC401081), mR
XM_379207	Homo sapiens hypothetical protein LOC285194 (LOC285194), mRNA
XM_379210	Homo sapiens LOC401085 (LOC401085), mRNA
XM_379213	Homo sapiens LOC401086 (LOC401086), mRNA
XM_379214	Homo sapiens hypothetical protein LOC339942 (LOC339942), mRNA
XM_379215	Homo sapiens hypothetical protein LOC132241 (LOC132241), mRNA
XM_379228	Homo sapiens LOC401093 (LOC401093), mRNA
XM_379229	Homo sapiens LOC401094 (LOC401094), mRNA
XM_379230	Homo sapiens hypothetical protein LOC339894 (LOC339894), mRNA
XM_379231	Homo sapiens hypothetical gene supported by BC034803 (LOC401098), mR
XM_379233	Homo sapiens LOC401099 (LOC401099), mRNA
XM_379234	Homo sapiens LOC401101 (LOC401101), mRNA
XM_379235	Homo sapiens hypothetical gene supported by AK127955 (LOC401103), mR
XM_379240	Homo sapiens LOC401104 (LOC401104), mRNA
XM_379243	Homo saplens hypothetical gene supported by AK091527 (LOC401106), mR
XM_379244	Homo sapiens hypothetical gene supported by AK127609 (LOC401107), mR
XM_379247	Homo sapiens hypothetical gene supported by AK128780; AL137733 (LOC4
XM_379248	Homo sapiens hypothetical gene supported by AK098259 (LOC401112), mR
XM_379249	Homo sapiens hypothetical gene supported by AK123125 (LOC401113), mR
XM_379250	Homo sapiens hypothetical gene supported by BC038466; BC062790 (LOC4
XM_379252	Homo sapiens hypothetical gene supported by BC017173 (LOC401117), mR
XM_379254	Homo sapiens hypothetical protein LOC339988 (LOC339988), mRNA
XM_379255	Homo sapiens hypothetical gene supported by AK094096 (LOC401119), mR
XM_379256	Homo sapiens hypothetical gene supported by AK127863 (LOC401120), mR
XM_379258	Homo sapiens hypothetical protein LOC285547 (LOC285547), mRNA
XM_379260	Homo sapiens hypothetical protein LOC152742 (LOC152742), mRNA
XM_379262	Homo saplens LOC401124 (LOC401124), mRNA
XM_379263	Homo sapiens LOC401126 (LOC401126), mRNA
XM_379264	Homo sapiens LOC401128 (LOC401128), mRNA
XM_379265	Homo sapiens LOC401129 (LOC401129), mRNA
XM_379267	Homo sapiens hypothetical gene supported by BC040544 (LOC401134), mR
XM_379268	Homo sapiens hypothetical gene supported by AK093682; AK129519 (LOC4
XM_379270	Homo sapiens casein alpha s2-like A (CSN1S2A), mRNA
XM_379271	Homo sapiens LOC401144 (LOC401144), mRNA
XM_379273	Homo sapiens hypothetical gene supported by AKO24248; AL137733 (LOC4
XM_379274	Homo sapiens hypothetical gene supported by BC062741 (LOC401151), mR

XM_379275	Homo sapiens LOC401153 (LOC401153), mRNA
XM_379276	Homo saplens hypothetical gene supported by AK123449; BX64 1014 (LOC4
XM_379278	Homo sapiens LOC401156 (LOC401156), mRNA
XM_379280	Homo sapiens hypothetical protein LOC285422 (LOC285422), mRNA
XM_379287	Homo sapiens LOC401159 (LOC401159), mRNA
XM_379288	Homo sapiens hypothetical protein LOC340017 (LOC340017), mRNA
XM_379294	Homo sapiens similar to hypothetical protein DKFZp762K222 (LOC401163),
XM_379295	Homo sapiens hypothetical protein LOC285441 (LOC285441), mRNA
XM_379298	Homo sapiens hypothetical gene supported by AY494056 (LOC401164), mR
XM 379299	Home saplens hypothetical gene supported by A1494036 (LOC401164), MR
XM_379303	Homo saplens hypothetical gene supported by BC029568 (LOC401165), mR
XM_379306	Homo sapiens hypothetical gene supported by AK126199 (LOC401168), mR
XM_379309	Homo sapiens hypothetical gene supported by BC034612 (LOC401169), mR
XM_379313	Homo sapiens hypothetical gene supported by BC035019 (LOC401171), mR
XM_379317	Homo sapiens hypothetical gene supported by AK126802 (LOC401173), mR
XM_379318	Homo sapiens LOC401175 (LOC401175), mRNA
_	Homo sapiens hypothetical gene supported by BC043001 (LOC401176), mR
XM_379320 XM_379321	Homo sapiens hypothetical gene supported by BC052942 (LOC401177), mR
	Homo sapiens hypothetical protein LOC340107 (LOC340107), mRNA
XM_379322	Homo sapiens hypothetical protein LOC340109 (LOC340109), mRNA
XM_379323	Homo sapiens LOC401178 (LOC401178), mRNA
XM_379324	Homo sapiens hypothetical protein LOC340113 (LOC340113), mRNA
XM_379325	Homo sapiens LOC401180 (LOC401180), mRNA
XM_379326	Homo sapiens hypothetical gene supported by BC028978 (LOC401181), mR
XM_379327 XM_379328	Homo sapiens LOC401182 (LOC401182), mRNA
XM_379331	Homo sapiens LOC401184 (LOC401184), mRNA
XM 379331	Homo sapiens hypothetical gene supported by AK057759 (LOC401185), mR
	Homo sapiens LOC401186 (LOC401186), mRNA
XM_379333 XM_379334	Homo sapiens LOC401187 (LOC401187), mRNA
XM_379336	Homo sapiens hypothetical protein LOC257396 (LOC257396), mRNA
XM_379339	Homo sapiens hypothetical gene supported by AK091013 (LOC401188), mR
XM_379340	Homo sapiens LOC401199 (LOC401199), mRNA
XM_379343	Homo sapiens hypothetical protein LOC285713 (LOC285713), mRNA Homo sapiens hypothetical gene supported by AK092258 (LOC401201), mR
XM_379347	Homo sapiens LOC401203 (LOC401203), mRNA
XM_379355	Homo sapiens hypothetical protein LOC340074 (LOC340074), mRNA
XM 379359	Homo sapiens hypothetical gene supported by AK022326 (LOC401210), mR
XM_379363	Homo sapiens hypothetical gene supported by BX640700 (LOC401210), mR
XM_379364	Homo sapiens hypothetical gene supported by AK127910 (LOC401212), mR
XM_379366	Homo sapiens hypothetical gene supported by AK127910 (LOC401213), mR
XM 379368	Homo sapiens LOC401215 (LOC401215), mRNA
XM_379371	Homo sapiens hypothetical protein LOC285626 (LOC285626), mRNA
XM_379372	Homo sapiens hypothetical gene supported by BC039501 (LOC401216), mR
XM_379373	Homo sapiens hypothetical protein LOC257358 (LOC257358), mRNA
XM 379377	Homo sapiens hypothetical gene supported by BX649016 (LOC401219), mR
XM_379378	Homo sapiens hypothetical gene supported by BC036933 (LOC401229), mR
XM_379380	Homo sapiens hypothetical gene supported by BC036933 (LOC401222), mR
XM 379381	Homo sapiens hypothetical gene supported by AK055745 (LOC401225), mR
XM 379382	Homo sapiens hypothetical gene supported by AK093197; BCO40992 (LOC4
XM 379384	Homo sapiens hypothetical protein LOC285766 (LOC285766), mRNA
XM_379386	Homo sapiens hypothetical protein LOC285768 (LOC285768), mRNA
XM_379391	Homo sapiens hypothetical gene supported by AK128409 (LOC401230), mR
XM 379392	Homo sapiens hypothetical gene supported by AK023629 (LOC401231), mR
XM_379393	Homo sapiens hypothetical gene supported by BX640709 (LOC401231), mR
XM_379395	Homo sapiens hypothetical gene supported by BC014487 (LOC401234), mR
XM_379396	Homo sapiens hypothetical protein LOC221710 (LOC221710), mRNA
XM_379398	Homo sapiens hypothetical gene supported by AK026189 (LOC401237), mR
XM_379401	Homo sapiens LOC401241 (LOC401241), mRNA
	, "

VIII 270400	Harra a serious by motherical group arranged by AKOEEEOO (LOCAO1949), mp
XM_379402	Homo sapiens hypothetical gene supported by AK055503 (LOC401242), mR
XM_379403	Homo sapiens chromosome 6 open reading frame 12 (C6orf12), mRNA
XM_379404	Homo sapiens hypothetical gene supported by AK055657 (LOC401245), mR
XM_379406	Homo sapiens hypothetical gene supported by AL832447 (LOC401254), mR
XM_379408	Homo sapiens LOC401255 (LOC401255), mRNA
XM_379409	Homo sapiens hypothetical gene supported by BX648112 (LOC401256), mR
XM_379410	Homo sapiens hypothetical gene supported by BC034770 (LOC401257), mR
XM_379411	Homo sapiens hypothetical gene supported by AK125083 (LOC401258), mR
XM_379413	Homo sapiens hypothetical gene supported by AK098234 (LOC401261), mR
XM 379417	Homo sapiens hypothetical gene supported by AK095117 (LOC401264), mR
XM_379424	Homo sapiens LOC401268 (LOC401268), mRNA
XM 379430	Homo sapiens hypothetical protein LOC285758 (LOC285758), mRNA
XM 379432	Homo sapiens hypothetical protein LOC285733 (LOC285733), mRNA
XM_379433	Homo sapiens hypothetical protein LOC285735 (LOC285735), mRNA
XM_379434	Homo sapiens hypothetical protein LOC154092 (LOC154092), mRNA
_	
XM_379435	Homo sapiens hypothetical gene supported by AK128874 (LOC401275), mR
XM_379436	Homo sapiens hypothetical gene supported by BC038188 (LOC401276), mR
XM_379437	Homo sapiens hypothetical protein LOC153910 (LOC153910), mRNA
XM_379438	Homo sapiens hypothetical protein LOC285740 (LOC285740), mRNA
XM_379439	Homo sapiens LOC401277 (LOC401277), mRNA
XM_379441	Homo sapiens LOC401279 (LOC401279), mRNA
XM_379450	Homo sapiens hypothetical gene supported by AK130765 (LOC401281), mR
XM_379452	Homo sapiens hypothetical gene supported by AL831931 (LOC401282), mR
XM_379453	Homo sapiens hypothetical gene supported by AL832143 (LOC401283), mR
XM_379454	Homo sapiens hypothetical gene supported by AK095077 (LOC401284), mR
XM_379456	Homo sapiens hypothetical protein LOC154222 (LOC154222), mRNA
XM_379458	Homo sapiens hypothetical gene supported by BX648586 (LOC401287), mR
XM_379459	Homo sapiens hypothetical gene supported by AK095441 (LOC401289), mR
XM_379460	Homo sapiens hypothetical gene supported by AL832760 (LOC401290), mR
XM_379461	Homo sapiens LOC401291 (LOC401291), mRNA
XM_379462	Homo sapiens hypothetical gene supported by BC064362; BX537893 (LOC4
XM_379463	Homo sapiens similar to hypothetical protein LOC154222 (LOC401294), mRI
XM 379467	Homo sapiens hypothetical gene supported by AK125766 (LOC401296), mR
XM_379469	Homo sapiens hypothetical gene supported by BC032734 (LOC401297), mR
XM 379471	Homo sapiens LOC401299 (LOC401299), mRNA
XM 379472	Homo sapiens LOC401301 (LOC401301), mRNA
XM 379474	Homo sapiens hypothetical gene supported by AK127500 (LOC401310), mR
XM_379476	Homo sapiens hypothetical gene supported by BC039682 (LOC401312), mR
XM 379477	Homo sapiens hypothetical protein LOC285941 (LOC285941), mRNA
XM_379478	Homo sapiens hypothetical gene supported by AK093987 (LOC401315), mR
XM_379479	Homo sapiens LOC401317 (LOC401317), mRNA
XM_379480	Homo sapiens LOC401318 (LOC401318), mRNA
XM_379480 XM_379481	Homo sapiens hypothetical gene supported by BC023581; BC044638 (LOC4
XM_379481	Homo sapiens hypothetical gene supported by BC025361, BC0441036 (LOC4 Homo sapiens hypothetical gene supported by BC016976 (LOC401320), mR
_	
XM_379483	Homo sapiens hypothetical gene supported by AK092714 (LOC401321), mR Homo sapiens hypothetical gene supported by AL832092 (LOC401324), mR
XM_379484	
XM_379485	Homo sapiens LOC401328 (LOC401328), mRNA
XM_379486	Homo sapiens hypothetical protein LOC285958 (LOC285958), mRNA
XM_379487	Homo sapiens hypothetical gene supported by AK125311 (LOC401334), mR
XM_379488	Homo sapiens hypothetical gene supported by AK024248; AL137733; BC06;
XM_379489	Homo sapiens LOC401345 (LOC401345), mRNA
XM_379490	Homo sapiens LOC401346 (LOC401346), mRNA
XM_379491	Homo sapiens LOC401348 (LOC401348), mRNA
XM_379492	Homo sapiens hypothetical gene supported by BX648489 (LOC401349), mR
XM_379493	Homo sapiens LOC401352 (LOC401352), mRNA
XM_379494	Homo sapiens LOC401353 (LOC401353), mRNA
XM_379495	Homo sapiens LOC401358 (LOC401358), mRNA

XM_379496	Homo sapiens LOC401359 (LOC401359), mRNA
XM_379498	Homo sapiens LOC401363 (LOC401363), mRNA
XM_379499	Homo sapiens hypothetical gene supported by AK024371; BC037920 (LOC4
XM_379500	Homo sapiens hypothetical gene supported by AK054923; AK126730; NM_0
XM_379501	Homo sapiens LOC401367 (LOC401367), mRNA
XM_379502	Homo sapiens LOC401368 (LOC401368), mRNA
XM_379503	Homo sapiens LOC401371 (LOC401371), mRNA
XM_379504	Homo sapiens hypothetical gene supported by AK024602 (LOC401380), mR
XM_379506	Homo sapiens LOC401384 (LOC401384), mRNA
XM_379507	Homo sapiens LOC401385 (LOC401385), mRNA
XM_379508	Homo sapiens LOC401386 (LOC401386), mRNA
XM_379510	Homo sapiens hypothetical protein FLJ34048 (FLJ34048), mRNA
XM_379511	Homo sapiens LOC401390 (LOC401390), mRNA
XM_379512	Homo sapiens LOC401394 (LOC401394), mRNA
XM_379513	Homo sapiens LOC401396 (LOC401396), mRNA
XM_379514	Homo sapiens hypothetical protein LOC340340 (LOC340340), mRNA
XM_379515	Homo sapiens hypothetical gene supported by BX537645 (LOC401397), mR
XM_379516	Homo sapiens hypothetical gene supported by BX648695 (LOC401398), mR
XM_379517	Homo sapiens hypothetical gene supported by BC063892 (LOC401399), mR
XM_379518	Homo sapiens LOC401400 (LOC401400), mRNA
XM_379520	Homo sapiens hypothetical protein FLJ43663 (FLJ43663), mRNA
XM_379521	Homo sapiens LOC401405 (LOC401405), mRNA
XM_379522	Homo sapiens LOC401406 (LOC401406), mRNA
XM_379523	Homo sapiens LOC401407 (LOC401407), mRNA
XM_379524	Homo sapiens LOC401408 (LOC401408), mRNA
XM_379526	Homo sapiens hypothetical gene supported by BX648692 (LOC401410), mR
XM_379527	Homo sapiens hypothetical gene supported by BC023225 (LOC401431), mR
XM_379528	Homo sapiens hypothetical protein LOC90520 (LOC90520), mRNA Homo sapiens LOC401432 (LOC401432), mRNA
XM_379529	Homo sapiens hypothetical protein LOC285972 (LOC285972), mRNA
XM_379530 XM_379531	Homo sapiens LOC401434 (LOC401434), mRNA
XM_379532	Homo sapiens LOC401435 (LOC401435), mRNA
XM_379533	Homo sapiens LOC401436 (LOC401436), mRNA
XM_379534	Homo sapiens hypothetical gene supported by AK054822 (LOC401437), mR
XM_379535	Homo sapiens hypothetical protein LOC285889 (LOC285889), mRNA
XM 379536	Homo sapiens hypothetical gene supported by BC041429 (LOC401438), mR
XM_379537	Homo sapiens hypothetical gene supported by AY166699 (LOC401439), mR
XM 379539	Homo sapiens LOC401440 (LOC401440), mRNA
XM_379540	Homo sapiens hypothetical protein LOC157693 (LOC157693), mRNA
XM 379541	Homo sapiens hypothetical gene supported by AK127852 (LOC401441), mR
XM 379543	Homo sapiens hypothetical gene supported by BC028401 (LOC401442), mR
XM 379545	Homo sapiens hypothetical gene supported by BC030648 (LOC401443), mR
XM_379547	Homo sapiens hypothetical gene supported by AK057888 (LOC401445), mR
XM_379548	Homo sapiens hypothetical gene supported by AK124896; BC037255 (LOC4
XM_379550	Homo sapiens hypothetical gene supported by AK091259 (LOC401448), mR
XM_379551	Homo sapiens hypothetical protein LOC349196 (LOC349196), mRNA
XM_379552	Homo sapiens LOC401449 (LOC401449), mRNA
XM_379553	Homo sapiens similar to hypothetical protein LOC157278 (LOC401451), mRI
XM_379554	
XM_379559	· · · · · · · · · · · · · · · · · · ·
XM_379562	
XM_379573	
XM_379582	11 11(10,10=0,0=0,0=0,0=0)
XM_379583	
XM_379584	
XM_379586	
XM_379587	Hollio Sapietis LOC401404 (LOC401404), HINNA

XM 379592	Homo sapiens hypothetical protein LOC286144 (LOC286144), mRNA
XM 379594	Homo sapiens hypothetical protein LOC286149 (LOC286149), mRNA
XM 379595	Homo sapiens hypothetical gene supported by AK125891 (LOC401471), mR
XM_379596	Homo sapiens LOC401473 (LOC401473), mRNA
XM_379597	Homo sapiens hypothetical protein FLJ10489 (FLJ10489), mRNA
XM_379601	Homo sapiens hypothetical gene supported by BC036187; NM_005839 (LOC
XM_379603	Homo sapiens hypothetical gene supported by BC009730; BC015157 (LOC4
XM_379605	Homo sapiens LOC401477 (LOC401477), mRNA
XM_379608	Homo sapiens hypothetical gene supported by AK056998 (LOC401480), mR
XM_379609	Homo sapiens hypothetical gene supported by BC041936 (LOC401481), mR
XM_379610	Homo sapiens LOC401482 (LOC401482), mRNA
XM_379617	Homo sapiens hypothetical gene supported by AK093004 (LOC401488), mR
XM_379618	Homo sapiens hypothetical gene supported by AY343891; AY343892; AY343
_	Homo sapiens hypothetical gene supported by BC052949 (LOC401490), mR
XM_379619	Homo sapiens hypothetical gene supported by AK092343 (LOC401491), mR
XM_379622	Homo sapiens hypothetical gene supported by AK123194 (LOC401492), mR
XM_379623	Homo sapiens hypothetical gene supported by BC048267; NM_178448 (LOC
XM_379625	Homo sapiens hypothetical gene supported by BC040207, NM_170440 (LCC
XM_379627	Homo sapiens LOC401496 (LOC401496), mRNA
XM_379628	Homo sapiens LOC401499 (LOC401499), mRNA
XM_379629	Homo sapiens hypothetical gene supported by AL512690 (LOC401500), mR
XM_379630	Homo sapiens LOC401503 (LOC401503), mRNA
XM_379632	Homo sapiens hypothetical protein LOC158376 (LOC158376), mRNA
XM_379634	Homo sapiens hypothetical gene supported by AK091718 (LOC401504), mR
XM_379635	Homo sapiens LOC401506 (LOC401506), mRNA
XM_379636	Homo sapiens hypothetical protein LOC158228 (LOC158228), mRNA
XM_379637	Homo sapiens hypothetical gene supported by AK127732 (LOC401513), mR
XM_379638	Homo sapiens hypothetical gene supported by AK026419 (LOC401518), mR
XM_379639	Homo sapiens LOC401522 (LOC401522), mRNA
XM_379640	Homo sapiens hypothetical gene supported by BC044751; NM_175923 (LOC
XM_379641	Homo sapiens hypothetical gene supported by BC062724 (LOC401 527), mR
XM_379642	Homo sapiens hypothetical gene supported by BC032955 (LOC401528), mR
XM_379643	Homo sapiens hypothetical gene supported by BC032955 (LOC401530), mR
XM_379644	Homo sapiens hypothetical gene supported by BC000228 (LOC401532), mR
XM_379645	Homo sapiens hypothetical gene supported by AK094988 (LOC401536), mR
XM_379647	Homo sapiens similar to hypothetical protein LOC286238 (LOC401538), mRI
XM_379648	Homo sapiens hypothetical gene supported by AK124333 (LOC401539), mR
XM_379650	Homo sapiens hypothetical protein LOC340515 (LOC340515), mRNA
XM_379651	Homo sapiens chromosome 9 open reading frame 44 (C9orf44), mRNA
XM_379655	Homo sapiens hypothetical gene supported by BC031969 (LOC401 542), mR
XM_379656	Homo sapiens hypothetical gene supported by AK092137 (LOC401 543), mR
XM_379657	Homo sapiens hypothetical gene supported by BC043559 (LOC401 544), mR
XM_379660	Homo sapiens LOC401545 (LOC401545), mRNA Homo sapiens hypothetical gene supported by BX647840 (LOC401 549), mR
XM_379664	Homo sapiens hypothetical gene supported by BAO47040 (LOO401040), mix
XM_379665	Homo sapiens hypothetical protein LOC286333 (LOC286333), mRNA Homo sapiens hypothetical gene supported by BC039180 (LOC401550), mR
XM_379667	Homo sapiens hypothetical gene supported by AK124723: AL 833509 (LOC4
XM_379668	Homo sapiens hypothetical gene supported by AK124723; AL833509 (LOC4
XM_379671	Homo sapiens hypothetical gene supported by BC019073; BC036842; BC04 Homo sapiens hypothetical gene supported by AK128673 (LOC401 554), mR
XM_379672	
XM_379676	11 A1000 (1.10 (1.00 A0 A CEO) D
XM_379677	
XM_379678	11 Attacation (Location) Di
XM_379680	
XM_379682	
XM_379684	
XM_379686	4 11 EVE 10010 (1 00 10 1 E70) D
XM_379688 XM_379690	DA14
VIAI_21,8080	Tiotho dupletto hypothetical protein 200201000 (200201000),

XM_379691	Homo sapiens hypothetical protein LOC284600 (LOC284600), mRNA
XM_379692	Homo sapiens LOC401574 (LOC401574), mRNA
XM_379693	Homo sapiens LOC401575 (LOC401575), mRNA
XM_379694	Homo sapiens hypothetical gene supported by AK125149 (LOC401577), mR
XM_379695	Homo sapiens hypothetical gene supported by BC056508; NM_004679 (LOC
XM_379696	Homo sapiens hypothetical gene supported by AK057918 (LOC401579), mR
XM_379697	Homo sapiens hypothetical gene supported by AL832542 (LOC40 1582) mR
XM_379699	Homo sapiens LOC401583 (LOC401583), mRNA
XM_379700	Homo sapiens hypothetical protein LOC286442 (LOC286442), mRNA
XM_379702	Homo sapiens hypothetical gene supported by AK098783 (LOC401585), mR
XM_379703	Homo sapiens hypothetical gene supported by AK130892 (LOC401587), mR
XM_379704	Homo sapiens hypothetical gene supported by AK056314; BC034616 (LOC4
XM_379705	Homo sapiens hypothetical protein LOC158572 (LOC158572), mRNA
XM_379714	Homo sapiens LOC401596 (LOC401596), mRNA
XM_379715	Homo sapiens hypothetical gene supported by AK125301 (LOC401597), mR
XM_379716	Homo sapiens hypothetical gene supported by AK057746 (LOC401599), mR
XM_379717	Homo sapiens hypothetical gene supported by AJ421269; AL359612; NM 0
XM_379720	Homo sapiens hypothetical gene supported by BX537697 (LOC401613), mR
XM_379721	Homo sapiens hypothetical gene supported by BX640956 (LOC401615), mR
XM_379722	Homo sapiens hypothetical gene supported by AK057519 (LOC401616), mR
XM_379723	Homo sapiens hypothetical gene supported by AK094280 (LOC401617), mR
XM_379728	Homo sapiens hypothetical protein LOC286411 (LOC286411), mRNA
XM_379730	Homo sapiens hypothetical gene supported by BC010531 (LOC401621), mR
XM_379735	Homo sapiens LOC401626 (LOC401626), mRNA
XM_379736	Homo sapiens hypothetical gene supported by AK125149 (LOC401628), mR
XM_379738	Homo sapiens LOC401629 (LOC401629), mRNA
XM_379739 XM_379741	Homo sapiens LOC401630 (LOC401630), mRNA
XM_379749	Homo sapiens LOC401701 (LOC401701), mRNA
XM_379760	Homo sapiens LOC401880 (LOC401880), mRNA
XM_379761	Homo sapiens LOC402387 (LOC402387), mRNA Homo sapiens LOC402433 (LOC402433), mRNA
XM_379766	Homo sapiens unc-84 homolog A (C. elegans) (UNC84A), mRNA
XM_379767	Homo sapiens DKFZP586J0619 protein (DKFZP586J0619), mRNA
XM_379771	Homo sapiens KIAA0415 gene product (KIAA0415), mRNA
XM_379772	Homo sapiens hypothetical gene supported by BC031661 (LOC402450), mR
XM_379773	Homo sapiens hypothetical protein LOC285924 (LOC285924), mRNA
XM_379774	Homo sapiens KIAA1856 protein (KIAA1856), mRNA
XM_379775	Homo sapiens hypothetical gene supported by AK125308 (LOC4O2452), mR
XM_379776	Homo sapiens hypothetical gene supported by AK123535 (LOC4O2454), mR
XM_379777	Homo sapiens similar to Oncomodulin (OM) (Parvalbumin beta) (LOC402456
XM_379780	Homo sapiens similar to unc-93 homolog B1; unc93 (C.elegans) homolog B:
XM_379781	Homo sapiens similar to beta-1,4-mannosyltransferase; beta-1,4 mannosyltra
XM_379783	Homo sapiens hypothetical gene supported by AK027125 (LOC402460), mR
XM_379784	Homo sapiens glucocorticoid induced transcript 1 (GLCCI1), mRNA
XM_379786	Homo sapiens similar to Chain , Heat-Shock Cognate 70kd Protein (44kd At
XM_379787	Homo sapiens similar to heat shock 70kDa protein 8 isoform 2: heat shock o
XM_379788	Homo sapiens PHD finger protein 14 (PHF14), mRNA
XM_379792	Homo sapiens similar to TWIST neighbor (LOC402464), mRNA
XM_379793	Homo sapiens ribosomal protein L21 (RPL21), mRNA
XM_379794	Homo sapiens similar to ribosomal protein L23 (LOC402465), mRNA
XM_379796	Homo sapiens similar to Dual specificity protein kinase CLK2 (CDC like kinas
XM_379797	Homo sapiens similar to FKSG54 (LOC402469), mRNA
XM_379798 XM_379800	Homo sapiens KIAA0087 gene product (KIAA0087), mRNA
XM_379800 XM_379801	Homo sapiens KIAA0644 gene product (KIAA0644), mRNA
XM_379802	Homo sapiens KIAA0241 protein (KIAA0241), mRNA Homo sapiens LOC89231 (LOC89231), mRNA
XM_379802 XM_379803	Homo sapiens coccess (LOCess231), mRNA Homo sapiens similar to KIAA0877 protein (LOC402477), mRNA
0.0000	The sapishe difficility to the foot of protein (LOO402411), INKINA

XM_379806	Homo sapiens similar to RP9 protein (LOC402478), mRNA
XM_379807	Homo sapiens similar to RIKEN cDNA 9330128H10 gene (LOC402479), mR
XM_379809	Homo sapiens hypothetical gene supported by AF447883 (LOC402481), mR
XM_379812	
XM_379815	Homo sapiens similar to sequence-specific single-stranded-DNA-binding pro
XM_379816	Homo sapiens similar to t-complex 1; T-complex locus TCP-1; t-complex 1 (a
XM_379817	Homo sapiens similar to RAS p21 protein activator 4; GTPase activating prot
XM_379818	Homo sapiens similar to RAS p21 protein activator 4; GTPase activating prot
XM_379819	Homo sapiens similar to DNA directed RNA polymerase II polypeptide J-relai
XM_379820	Homo sapiens similar to Ras GTPase-activating protein 4 (RasGAP-activatin
XM_379824	Homo sapiens similar to cell division cycle 10 homolog (LOC402491), mRNA
XM_379825	Homo sapiens similar to hypothetical protein FLJ25976 (LOC402492), mRN/
XM_379827	Homo sapiens hypothetical gene supported by AK126096 (LOC402494), mR
XM_379830	Homo sapiens similar to KIAA0207 (LOC402495), mRNA
XM_379831	Homo sapiens hypothetical gene supported by AK097404; NM_198284 (LOC
XM_379832	Homo sapiens hypothetical gene supported by AK127870 (LOC402497), mR
XM_379834	Homo sapiens similar to SMT3 suppressor of mif two 3 homolog 2 (LOC4025
XM_379835	Homo sapiens similar to hypothetical protein DKFZp434F142 (LOC402501),
XM_379836	Homo sapiens similar to septin 10 isoform 1 (LOC402502), mRNA
XM_379838	Homo sapiens similar to bA145E8.1 (KIAA1074) (LOC402505), mRNA
XM_379839	Homo sapiens similar to CAGL79 (LOC402508), mRNA
XM_379840	Homo saplens similar to solute carrier family 29 (nucleoside transporters), m
XM_379841	Homo sapiens zinc finger protein 479 (ZNF479), mRNA
XM_379842	Homo sapiens LOC402513 (LOC402513), mRNA
XM_379843	Homo sapiens hypothetical gene supported by BC040831 (LOC402514), mR
XM_379844	Homo sapiens hypothetical gene supported by BC040831 (LOC402517), mR
XM_379845	Homo sapiens similar to solute carrier family 29 (nucleoside transporters), me
XM_379846	Homo sapiens similar to BC060615 protein (LOC402519), mRNA
XM_379847	Homo sapiens similar to CAGL79 (LOC402520), mRNA
XM_379848	Homo sapiens similar to hypothetical protein LOC285908 (LOC402521), mRI
XM_379849	Homo sapiens similar to GA binding protein transcription factor, alpha subun
XM_379850	Homo sapiens similar to hypothetical ZNF-like protein (LOC402524), mRNA
XM_379851	Homo sapiens similar to RPL6 protein (LOC402525), mRNA
XM_379852	Homo sapiens similar to envelope protein (LOC402526), mRNA
XM_379853	Homo sapiens similar to myelin protein zero-like 1; protein zero related (LOC
XM_379854	Homo sapiens similar to hypothetical protein FLJ25037 (LOC402529), mRN/
XM_379855	Homo sapiens similar to hypothetical protein MGC16733 similar to CG12113
XM_379856	Homo sapiens similar to MGC16733 protein (LOC402531), mRNA
XM_379857 XM_379858	Homo sapiens similar to 60S ribosomal protein L35 (LOC402536), mRNA
XM_379859	Homo sapiens similar to Williams-Beuren syndrome critical region protein 19
XM_379860	Homo sapiens similar to hypothetical protein FLJ10900 (LOC402540), mRN/
XM_379861	Homo sapiens similar to Williams Beuren syndrome chromosome region 19
XM_379862	Homo sapiens similar to FKBP6 protein (LOC402543), mRNA
XM_379863	Homo sapiens similar to Brutons tyrosine kinase-associated protein-135; BAI
XM_379864	Homo sapiens similar to Neutrophil cytosol factor 1 (NCF-1) (Neutrophil NAD Homo sapiens similar to transcription factor GTF2IRD2 (LOC402546), mRNA
XM_379865	Homo sapiens similar to Muclear appelance near membrane protein DOM 404
XM_379866	Homo sapiens similar to Nuclear envelope pore membrane protein POM 121 Homo sapiens Williams Beuren syndrome chromosome region 24 (WBSCR2
XM_379868	Homo sapiens similar to Neutrophil cytosolic factor 1 (LOC402549), mRNA
XM_379869	Homo sapiens similar to transcription factor GTF2IRD2 (LOC402550), mRNA
XM_379871	Homo sapiens similar to transcription factor G1F2IRD2 (LOC402550), mRNF Homo sapiens similar to RCC1-like G exchanging factor-like isoform 1; RCC
XM_379872	Homo sapiens similar to PMS4 (LOC402552), mRNA
XM_ 379874	Homo sapiens similar to PMS4 homolog mismatch repair protein - human (Lo
XM_379875	Homo sapiens similar to FKBP6 protein (LOC402555), mRNA
XM_379876	Homo saplens tripartite motif-containing 50B (TRIM50B), mRNA
XM_379877	Homo sapiens similar to Nuclear envelope pore membrane protein POM 121
XM_379879	Homo sapiens similar to hypothetical protein LOC285908 (LOC402558), mRi

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XM_379881 Homo sapiens similar to Piccolo protein (Aczonin) (LOC402561), mRNA Homo sapiens similar to Heterogeneous nuclear ribonucleoprotein A1 (Helix-M_379887 Homo sapiens similar to Heterogeneous nuclear ribonucleoprotein A1 (Helix-M_379881 Homo sapiens similar to Heterogeneous nuclear ribonucleoprotein A1 (Helix-M_379891 Homo sapiens similar to Homeobox protein DLX-6 (LOC402565), mRNA Homo sapiens similar to Homeobox protein DLX-6 (LOC402565), mRNA Homo sapiens similar to G14980-PB (LOC376601), mRNA Homo sapiens similar to importin alpha 1b (LOC402569), mRNA Homo sapiens similar to importin alpha 1b (LOC402569), mRNA Homo sapiens similar to Interior protein Interior procursor (Zn-alpha-2-gly Mangarea) Homo sapiens similar to Interior protein MCC249416 (LOC402572), mRN AM 379901 Homo sapiens similar to Interior protein MCC49416 (LOC402573), mRNA Homo sapiens similar to Interior protein MCC49416 (LOC402573), mRNA Homo sapiens similar to Interior protein MCC49416 (LOC402573), mRNA Homo sapiens similar to Interior protein MCC49416 (LOC402573), mRNA Homo sapiens similar to Interior protein MCC402573), mRNA Homo sapiens similar to Interior protein MCC402573, mRNA Homo sapiens similar to Interior protein MCC402573, mRNA Homo sapiens similar to Interior protein (LOC402573), mRNA Homo sapiens similar to Interior protein (LOC402573), mRNA Homo sapiens similar to Interior protein (LOC402573), mRNA Homo sapiens similar to Interior protein (LOC402584), mRNA Homo sapiens similar to Interior protein (LOC402589), mRNA Homo sapiens similar to Interior protein (LOC402589), mRNA Homo sapiens similar to Interior protein (LOC402600), mRNA Homo sapiens similar to Interior Interior (LOC402600), mRNA Homo sapiens similar to Interior Interior (LOC402600), mRNA Homo sapiens similar to Interior Interior (LOC402600), mRNA Homo sapiens similar to Interior Interi	XM_379881	Homo sapiens similar to hypothetical protein (LOC402559), mRNA
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XM_379940 XM_379940 XM_379954 XM_379954 XM_379958 XM_379960 XM_379961 XM_379961 XM_379961 XM_379961 XM_379961 XM_379961 XM_379962 XM_379963 XM_379964 XM_379964 XM_379965 XM_379965 XM_379966 XM_379966 XM_379967 XM_379967 XM_379970 XM_379970 XM_379970 XM_379971 XM_379970 XM_379		
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XM_379958 XM_379959 XM_379961 XM_379962 XM_379964 XM_379965 XM_379965 XM_379966 XM_379966 XM_379967 XM_379967 XM_379970 XM_379970 XM_379970 XM_379970 XM_379970 XM_379970 XM_379970 XM_379970 XM_379971 XM_379970 XM_379980 XM_379		Homo sapiens riypothetical protein (LOC403432), mRNA Homo sapiens similar to KIAA0738 protein (LOC403648), mRNA
XM_379959 XM_379962 XM_379964 XM_379965 XM_379965 XM_379966 XM_379966 XM_379967 XM_379967 XM_379970 XM_379970 XM_379970 XM_379971 XM_379970 XM_379		Homo sapiens similar to hypothetical protein (LOC402018), MRNA
XM_379962 XM_379964 XM_379965 XM_379966 XM_379966 XM_379967 XM_379967 XM_379970 XM_379970 XM_379970 XM_379971 XM_379970 XM_379971 XM_379970 XM_379		Homo saniene El 1/3602 protein (El 1/3602) mBNA
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XM_379961 XM_379967 XM_379968 XM_379968 XM_379970 XM_379970 XM_379971 XM_379971 XM_379971 XM_379970 XM_379970 XM_379970 XM_379971 XM_379970 XM_379		Homo saniens El 145737 protein (El 145737) mBNA
XM_379967 XM_379968 XM_379970 XM_379970 XM_379974 Homo sapiens kIAA0543 protein (KIAA0543), mRNA Homo sapiens chromosome 7 open reading frame 32 (C7orf32), mRNA Homo sapiens similar to Zinc finger protein 84 (Zinc finger protein HPF2) (LC Homo sapiens kIAA1402 protein (CSGIcA-T), mRNA Homo sapiens hypothetical gene supported by AK127717 (LOC402625), mR Homo sapiens similar to Fatty acid-binding protein, epidermal (E-FABP) (Psc Homo sapiens similar to T-complex protein 1 (LOC402629), mRNA Homo sapiens hypothetical protein LOC285888 (LOC285888), mRNA Homo sapiens kIAA0543 protein (KIAA0543), mRNA Homo sapiens similar to Zinc finger protein HPF2) (LC Homo sapiens kIAA1402 protein (CSGIcA-T), mRNA Homo sapiens similar to Fatty acid-binding protein, epidermal (E-FABP) (Psc Homo sapiens similar to T-complex protein 1 (LOC402629), mRNA Homo sapiens hypothetical protein LOC155435 (LOC155435), mRNA Homo sapiens similar to T-complex protein 1 (LOC402629), mRNA Homo sapiens similar to T-complex protein 1 (LOC402629), mRNA Homo sapiens similar to T-complex protein 1 (LOC402629), mRNA Homo sapiens similar to T-complex protein 1 (LOC402629), mRNA Homo sapiens similar to T-complex protein 1 (LOC402629), mRNA Homo sapiens similar to T-complex protein 1 (LOC402629), mRNA Homo sapiens similar to T-complex protein 1 (LOC402629), mRNA Homo sapiens similar to T-complex protein 1 (LOC402629), mRNA Homo sapiens similar to T-complex protein 1 (LOC402629), mRNA Homo sapiens similar to T-complex protein 1 (LOC402629), mRNA Homo sapiens similar to T-complex protein 1 (LOC402629), mRNA Homo sapiens similar to T-complex protein 1 (LOC402629), mRNA Homo sapiens similar to T-complex protein 1 (LOC402629), mRNA Homo sapiens similar to T-complex protein 1 (LOC402629), mRNA Homo sapiens similar to T-complex protein 1 (LOC402629), mRNA Homo sapiens similar to T-complex protein 1 (LOC402629), mRNA Homo sapiens similar to T-complex protein 1 (LOC402629), mRNA		Home saniers similar to KIAA2036 protoin (LOCA02634) DAIA
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XM_379980 Homo sapiens hypothetical protein LOC155435 (LOC155435), mRNA XM_379983 Homo sapiens ubiquitin-protein isopeptide ligase (E3) (KIAA0010), mRNA XM_379986 Homo sapiens similar to hypothetical protein FLJ37300 (LOC402633), mRNA		Homo sapiens hypothetical protain LOC285888 (LOC285888), ITRIVA
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XM_379986 Homo sapiens similar to hypothetical protein FLJ37300 (LOC402633), mRN/		Home sapiens ubiquitin-protein isoperatide ligace (E2) (((18,4,0,4,0),
	_	Home saniers similar to hypothetical protein EL 127200 (LOC402622)
Thomas suprious similar to mesenchymar stem cen protein DSO92; neunte outg	_	Homo sapiens similar to mesanchymal stem cell protein DCC00 received
		The same of the second street cell protein DSC92, neunte outg

XM_379988	Homo sapiens similar to galectin-related inter-fiber protein (LOC402635), mF
XM_379989	Homo sapiens similar to olfactory receptor MOR267-3 (LOC402636), mRNA
XM_379990	Homo sapiens similar to Calgizzarin (S100C protein) (MLN 70) (LOC402637)
XM_379991	Homo sapiens similar to ribosomal protein L31 (LOC402638), mRNA
XM_379993	Homo sapiens similar to olfactory receptor MOR145-2 (LOC402639), mRNA
XM_379994	Homo sapiens similar to 4930579E17Rik protein (LOC402640), mRNA
XM_379995	Homo sapiens similar to MGC76216 protein (LOC40≥641), mRNA
XM_379996	Homo sapiens similar to solute carrier family 40 (iron-regulated transporter),
XM 379997	Homo sapiens similar to tropomyosin 3 (LOC402643), mRNA
XM_379998	Homo sapiens similar to peptidylprolyl isomerase A (L_OC402644), mRNA
XM_379999	Homo sapiens similar to FLJ40113 protein (LOC402645), mRNA
XM_380002	Homo sapiens similar to ELK1 (LOC402648), mRNA
XM 380005	Homo sapiens similar to equilibrative nucleoside transporter 4; hENT4 (LOC4
XM 380006	Homo sapiens similar to beta-glucuronidase (LOC402662), mRNA
XM 380007	Homo sapiens similar to vomeronasal receptor V1RC3 (LOC402663), mRNA
XM_380008	Homo sapiens similar to Opioid binding protein/cell achesion molecule precu
XM 380009	Homo sapiens similar to protein kinase related to Raf protein kinases; Metho
XM_380010	Homo sapiens similar to metabotropic glutamate receptor 8; G protein-couple
XM_380011	Homo sapiens similar to GTF2I repeat domain contai ning 1 isoform 2; Williar
XM 380012	Homo sapiens similar to opposite strand transcription unit to Stag3; Gats pro
XM_380013	Homo sapiens similar to GrpE protein homolog 1, mitochondrial precursor (N
XM 380014	Homo sapiens similar to GTF2I repeat domain contai ning 1 isoform 2; William
XM_380015	Homo sapiens similar to peptidylprolyl isomerase A (LOC402673), mRNA
XM 380018	Homo sapiens hypothetical protein DKFZP434A0225 (DKFZP434A0225), mF
XM 380019	Homo sapiens similar to RIKEN cDNA 4930511M11 (LOC402675), mRNA
XM 380020	Homo sapiens similar to Protein C6orf66 (HSPC125) (My013 protein) (LOC4
XM_380021	Homo sapiens similar to ribosomal protein S3a; 40S ribosomal protein S3a; \
XM 380022	Homo sapiens similar to Ser/Thr protein kinase PAR-1Balpha (LOC402679),
XM_380024	Homo sapiens similar to opposite strand transcription unit to Stag3; Gats pro
XM_380025	Homo sapiens similar to PMS2L13 (LOC402681), mRNA
XM 380026	Homo sapiens similar to RIKEN cDNA 2700038N03 (LOC402682), mRNA
XM 380028	Homo sapiens similar to 40S RIBOSOMAL PROTEIN SA (P40) (34/67 KD L/
XM_380031	Homo sapiens similar to KIAA0538 protein (LOC402684), mRNA
XM_380032	Homo sapiens similar to Ras GTPase-activating protein 4 (RasGAP-activatin
XM_380033	Homo sapiens similar to 60S ribosomal protein L23a (LOC402686), mRNA
XM_380034	Homo sapiens similar to Argininosuccinate synthase (Citrullineaspartate lig
XM 380036	Homo sapiens similar to RIKEN cDNA 6332401019 gene (LOC402689), mR
XM 380038	Homo sapiens similar to Triosephosphate isomerase (TIM) (LOC402691), ml
XM 380039	Homo sapiens similar to aldo-keto reductase family 1, member B10; aldose r
XM 380040	Homo sapiens similar to beta-tubulin (LOC402693), mRNA
XM_380042	Homo sapiens similar to 60S ribosomal protein L15 (LOC402694), mRNA
XM 380044	Homo sapiens similar to 60S ribosomal protein L17 (L23) (Amino acid starva
XM_380045	Homo sapiens similar to Nucleoside diphosphate kin-ase, mitochondrial precu
XM 380047	Homo sapiens similar to Nucleoside diphosphate kin ase, mitochondrial precu
XM_380048	Homo sapiens similar to Olfactory receptor 9A4 (LOC402698), mRNA
XM 380055	Homo sapiens similar to Olfactory receptor 9A2 (LOC402707), mRNA
XM 380056	Homo sapiens similar to Olfactory receptor 6V1 (LOC402708), mRNA
XM_380057	Homo sapiens similar to Histidine triad nucleotide-birnding protein 1 (Adenosi
XM_380059	Homo sapiens similar to Olfactory receptor 2F2 (Olfactory receptor 7-1) (ORi
XM 380063	Homo sapiens similar to Olfactory receptor 2A12 (LOC402711), mRNA
XM_380067	Homo sapiens similar to Olfactory receptor 2A1 (LOC402712), mRNA
XM_380068	Homo sapiens similar to Olfactory receptor 2A1 (LOC402713), mRNA
XM_380069	Homo sapiens similar to OG-2 homeodomain proteir₃-like; similar to U65067
XM_380070	Homo sapiens similar to Importin alpha-2 subunit (Karyopherin alpha-2 subu
XM_380072	Homo sapiens similar to 60S ribosomal protein L32 (LOC402716), mRNA
XM_380073	Homo sapiens similar to Huntingtin Interacting protei n K (LOC402717), mRN
XM_380074	Homo sapiens similar to BET1 homolog (Golgi vesicular membrane trafficking
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XM_380076	Homo sapiens similar to TSH receptor suppressor element-binding protein-1
XM 380077	Homo sapiens similar to ppg3 (LOC402720), mRNA
XM 380078	Homo sapiens similar to S-adenosylmethionine decarboxylase 1; S-adenosyl
XM 380081	Homo sapiens hypothetical protein FLJ36112 (FLJ36112), mRNA
XM 380082	Homo sapiens hypothetical gene supported by AK125766 (LOC402448), mR
XM_380085	Homo sapiens hypothetical gene supported by BC032734 (LOC402449), mR
XM 380087	Homo sapiens LOC402451 (LOC402451), mRNA
XM_380088	Homo sapiens LOC402453 (LOC402453), mRNA
XM_380089	Homo sapiens hypothetical gene supported by AK127500 (LOC402463), mR
XM 380091	Homo saplens hypothetical gene supported by BC039682 (LOC402466), mR
XM 380092	Homo sapiens hypothetical protein LOC285941 (LOC285941), mRNA
XM_380093	Homo sapiens hypothetical gene supported by BC025338 (LOC402470), mR
XM 380094	Homo sapiens hypothetical gene supported by AK093987 (LOC402471), mR
XM_380095	Homo sapiens LOC402472 (LOC402472), mRNA
XM 380096	Homo sapiens LOC402473 (LOC402473), mRNA
XM_380097	Homo sapiens hypothetical gene supported by BC023581; BC044638 (LOC4
XM 380098	Homo sapiens hypothetical gene supported by BC016976 (LOC402475), mR
XM_380099	Homo sapiens hypothetical gene supported by AK092714 (LOC402476), mR
XM_380100	Homo sapiens hypothetical gene supported by AL832092 (LOC402480), mR
XM 380103	Homo sapiens hypothetical gene supported by AK127273 (LOC402483), mR
XM_380104	Homo sapiens LOC402485 (LOC402485), mRNA
XM_380105	Homo sapiens hypothetical protein LOC285958 (LOC285958), mRNA
XM_380106	Homo sapiens hypothetical gene supported by AK125311 (LOC402493), mR
XM_380107	Homo sapiens hypothetical gene supported by AK024248; AL137733; BC062
XM_380108	Homo sapiens LOC402506 (LOC402506), mRNA
XM_380109	Homo sapiens LOC402507 (LOC402507), mRNA
XM_380110	Homo sapiens LOC402511 (LOC402511), mRNA
XM_380111	Homo sapiens hypothetical gene supported by BX648489 (LOC402512), mR
XM_380112	Homo sapiens LOC402515 (LOC402515), mRNA
XM_380113	Homo sapiens LOC402516 (LOC402516), mRNA
XM_380114	Homo sapiens LOC402523 (LOC402523), mRNA
XM_380115	Homo sapiens LOC402528 (LOC402528), mRNA
XM_380117	Homo sapiens LOC402532 (LOC402532), mRNA
XM_380118	Homo sapiens hypothetical gene supported by AK024371; BC037920 (LOC4
XM_380119	Homo sapiens hypothetical gene supported by AK054923; AK126730; NM_0
XM_380120	Homo sapiens LOC402537 (LOC402537), mRNA
XM_380121	Homo sapiens LOC402538 (LOC402538), mRNA
XM_380122	Homo sapiens LOC402542 (LOC402542), mRNA
XM_380125	Homo sapiens LOC402553 (LOC402553), mRNA
XM_380126	
XM_380127	
XM_380128	Homo sapiens LOC402563 (LOC402563), mRNA
XM_380129	·
XM_380131	Homo sapiens hypothetical protein FLJ34048 (FLJ34048), mRNA
XM_380133	
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XM_380146	
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XM_380148	Homo sapiens LOC402598 (LOC402598), mRNA
XM_380149	Homo sapiens LOC402599 (LOC402599), mRNA
XM_380150	Homo sapiens hypothetical gene supported by BX648692 (LOC402603), mR
XM_380151	Homo sapiens LOC402617 (LOC402617), mRNA
XM_380152	Homo sapiens hypothetical protein LOC90520 (LOC90520), mRNA
XM_380153	Homo sapiens LOC402622 (LOC402622), mRNA
XM_380154	Homo sapiens hypothetical protein LOC285972 (LOC285972), mRNA
XM_380155	Homo sapiens LOC402626 (LOC402626), mRNA
XM_380156	Homo sapiens LOC402627 (LOC402627), mRNA
XM_380157	Homo sapiens LOC402630 (LOC402630), mRNA Homo sapiens hypothetical gene supported by AY166699 (LOC402631), mR
XM_380158 XM_380159	Homo sapiens hypothetical gene supported by AK105033 (LOC402632), mR
XM_380160	Homo sapiens hypothetical protein LOC285889 (LOC285889), mRNA
XM_380162	Homo sapiens hypothetical protein LOC154822 (LOC154822), mRNA
XM_380170	Homo sapiens phosphodiesterase 4D interacting protein (myomegalin) (PDE
XM_380171	Homo sapiens iroquois homeobox protein 1 (IRX1), mRNA
XM 380173	Homo sapiens hypothetical protein MGC39830 (MGC39830), mRNA
XM_380174	Homo sapiens similar to aquaporin 11 (LOC285192), mRNA
XM_380175	Homo sapiens hypothetical protein MGC22265 (MGC22265), mRNA
XM_380176	Homo sapiens similar to hypothetical protein D030010E02 (LOC401952), mF
NC_000001	Homo sapiens chromosome 1, complete sequence
NC_000002	Homo sapiens chromosome 2, complete sequence
NC_000003	Homo sapiens chromosome 3, complete sequence
NC_000004	Homo sapiens chromosome 4, complete sequence
NC_000005	Homo sapiens chromosome 5, complete sequence
NC_00006	Homo sapiens chromosome 6, complete sequence
NC_000007	Homo sapiens chromosome 7, complete sequence
NC_000008	Homo sapiens chromosome 8, complete sequence
NC_000009	Homo sapiens chromosome 9, complete sequence
NC_000010	Homo sapiens chromosome 10, complete sequence
NC_000011	Homo sapiens chromosome 11, complete sequence
NC_000012	Homo sapiens chromosome 12, complete sequence Homo sapiens chromosome 13, complete sequence
NC_000013 NC_000014	Homo sapiens chromosome 14, complete sequence
NC 000015	Homo sapiens chromosome 15, complete sequence
NC_000016	Homo sapiens chromosome 16, complete sequence
NC 000017	Homo sapiens chromosome 17, complete sequence
NC_000018	Homo sapiens chromosome 18, complete sequence
NC 000019	Homo sapiens chromosome 19, complete sequence
NC_000020	Homo sapiens chromosome 20, complete sequence
NC_000021	Homo sapiens chromosome 21, complete sequence
NC_000022	Homo sapiens chromosome 22, complete sequence
NC_000023	Homo sapiens chromosome X, complete sequence
NC_000024	Homo sapiens chromosome Y, complete sequence
NC_001807	Homo sapiens mitochondrion, complete genome
NG_000002	
NG_00004	Homo sapiens cytochrome P450, family 3, subfamily A (CYP3A) on chromos
NG_000006	
NG_000007	
NG_000008	
NG_000009	
NG_000012 NG_000013	
NG_000016	
NG_000010	
NG_000017	Homo sapiens type I (acidic) hair keratin gene cluster (KRTHA.1@) on chron
NG_000019	
_ 3	

NG 000827 Homo sapiens genomic histone family microcluster (HFM@) on chromosome Homo sapiens immunoglobulin kappa locus, distal duplicated V-cluster (IGK-NG 000833 Homo sapiens immunoglobulin kappa locus, proximal V-cluster and J-C clust NG 000834 NG 000837 Homo sapiens surfeit locus (SURF@) on chromosome 9 NG 000839 Homo sapiens cystatin locus (CST@) on chromosome 20 Homo sapiens actin, beta pseudogene 8 (ACTBP8) on chromosome 6 NG 000840 Homo sapiens actin, gamma pseudogene 2 (ACTGP2) on chromosome Y NG_000841 Homo sapiens actin, gamma pseudogene 3 (ACTGP3) on chromosome 20 NG_000842 NG_000843 Homo sapiens adenosine A2b receptor pseudogene (ADORA2BP) on chrom Homo sapiens argininosuccinate synthetase pseudogene 2 (ASSP2) on chro NG_000845 Homo sapiens argininosuccinate synthetase pseudogene 4 (ASSP4) on chro NG_000846 Homo sapiens argininosuccinate synthetase pseudogene 5 (ASSP5) on chro NG_000847 NG_000848 Homo sapiens argininosuccinate synthetase pseudogene 6 (ASSP6) on chro NG 000849 Homo sapiens ATPase, Na+/K+ transporting, beta 3 pseudogene (ATP1B3P Homo sapiens BCL2-like 7 pseudogene 1 (BCL2L7P1) on chromosome 20 NG 000850 Homo sapiens crystallin, beta B2 pseudogene 1 (CRYBB2P1) on chromoson NG_000851 Homo sapiens cysteine and glycine-rich protein 2 pseudogene (CSRP2P) on NG_000852 Homo sapiens cytochrome P450, family 2, subfamily D, polypeptide 8 pseudo NG 000853 NG 000854 Homo sapiens cytochrome P450, family 2, subfamily D, polypeptide 8 pseudo Homo sapiens dihydrofolate reductase pseudogene 1 (DHFRP1) on chromos NG 000858 Homo sapiens eukaryotic translation initiation factor 5A pseudogene 1 (EIF5) NG 000859 NG_000861 Homo sapiens glycerol kinase pseudogene 3 (GKP3) on chromosome 4 Homo saplens quanine nucleotide binding protein (G protein), q polypeptide NG_000862 Homo sapiens hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyr NG 000863 NG 000865 Homo sapiens proliferating cell nuclear antigen pseudogene (PCNAP) on chi NG 000866 Homo sapiens RNA binding motif, single stranded interacting protein 1, pseu NG 000867 Homo sapiens radixin pseudogene 2 (RDXP2) on chromosome X NG_000868 Homo sapiens ribosomal protein L21 pseudogene 1 (RPL21P1) on chromosomal pseudogen NG 000869 Homo sapiens ribosomal protein L32 pseudogene 1 (RPL32P1) on chromosc NG 000870 Homo sapiens ribonucleotide reductase M2 polypeptide pseudogene 3 (RRN NG 000871 Homo sapiens ribonucleotide reductase M2 polypeptide pseudogene 4 (RRIV NG_000872 Homo sapiens tRNA phosphoserine (opal suppressor) pseudogene 1 (TRSP NG_000873 Homo sapiens makorin, ring finger protein, pseudogene 1 (MKRNP1) on chrc NG_000874 Homo sapiens heterogeneous nuclear ribonucleoprotein D (AU-rich element Homo sapiens ribosomal protein L3 pseudogene 1 (RPL3P1) on chromosom NG_000877 NG_000878 Homo sapiens ribosomal protein L23a pseudogene 3 (RPL23AP3) on chrom-NG_000880 Homo sapiens arylsulfatase E pseudogene (ARSEP) on chromosome Y Homo sapiens arylsulfatase D pseudogene (ARSDP) on chromosome Y NG 000881 Homo sapiens voltage-dependent anion channel 5, pseudogene (VDAC5P) c NG 000882 Homo sapiens high-mobility group (nonhistone chromosomal) protein 1-like 3 NG 000883 NG_000884 Homo sapiens snail homolog 1 like 1 (Drosophila) (SNAI1L1) pseudogene or NG_000885 Homo sapiens nucleophosmin 1 (nucleolar phosphoprotein B23, numatrin) p NG 000886 Homo sapiens nucleophosmin 1 (nucleolar phosphoprotein B23, numatrin) p: Homo sapiens nucleophosmin 1 (nucleolar phosphoprotein B23, numatrin) p: NG 000887 Homo sapiens ribosomal protein L41, pseudogene 3 (RPL41P3) on chromos NG_000889 Homo sapiens ribosomal protein L41, pseudogene 2 (RPL41P2) on chromos NG 000890 Homo sapiens ribosomal protein L41, pseudogene 1 (RPL41P1) on chromos NG 000891 Homo sapiens high-mobility group (nonhistone chromosomal) protein 17-like NG 000892 Homo sapiens ribosomal protein S24 pseudogene 1 (RPS24P1) on chromos NG 000893 Homo sapiens ribosomal protein L34 pseudogene 2 (RPL34P2) on chromoso NG_000894 Homo sapiens ribosomal protein L34 pseudogene 1 (RPL34P1) on chromosomal NG 000895 Homo sapiens ribosomal protein S5 pseudogene 1 (RPS5P1) on chromosom NG 000896 Homo sapiens high-mobility group (nonhistone chromosomal) protein 1-like § NG 000897 Homo sapiens zinc finger protein 299 pseudogene (ZNF299P) on chromosor NG 000898 Homo sapiens voltage-dependent anion channel 2 pseudogene (VDAC2P) o NG 000899 Homo sapiens tubulin, alpha pseudogene (TUBAP) on chromosome 21 NG 000900 Homo sapiens solute carrier family 6, member 6 pseudogene (SLC6A6P) on NG 000901

NG 000903

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Homo sapiens ribosomal protein S5-like (RPS5L) pseudogene on chromosor

NG 000904 Homo sapiens ribosomal protein S3A pseudogene 1 (RPS3AP1) on chromos NG 000906 Homo sapiens ribosomal protein S20, pseudogene 1 (RPS20P1) on chromos NG 000907 Homo sapiens ribosomal protein L34 pseudogene 3 (RPL34P3) on chromosomal NG_000908 Homo sapiens ribosomal protein L31 pseudogene 1 (RPL31P1) on chromosomal NG_000909 Homo sapiens ribosomal protein L23 pseudogene 2 (RPL23P2) on chromosomal pse NG_000910 Homo sapiens ribosomal protein L23a pseudogene 4 (RPL23AP4) on chrom-NG_000911 Homo sapiens ribosomal protein L10 pseudogene 1 (RPL10P1) on chromosomal NG 000912 Homo sapiens ribosomal modification protein rimK-like (E. coli) pseudogene NG 000913 Homo sapiens protein phosphatase 1, regulatory (inhibitor) subunit 2 pseudo NG 000914 Homo sapiens peptidylprolyl isomerase A (cyclophilin A), pseudogene (PPIA NG 000915 Homo sapiens polymerase (RNA) II (DNA directed) polypeptide C, pseudoge NG 000916 Homo sapiens poly(rC) binding protein 2, pseudogene 1 (PCBP2P1) on chro NG 000917 Homo sapiens myosin, light polypeptide 6, pseudogene (MYL6P) on chromo: NG 000919 Homo sapiens inner membrane protein, mitochondrial (mitofilin) pseudogene NG 000920 Homo sapiens heat shock 60kDa protein 1 (chaperonin) pseudogene 7 (HSF NG 000921 Homo sapiens high-mobility group (nonhistone chromosomal) protein 14 pse NG_000922 Homo sapiens H2A histone family, member Z, pseudogene (H2AFZP) on chi NG_000923 Homo sapiens farnesyl diphosphate synthase pseudogene (FDPSP) on chro NG_000924 Homo sapiens eukaryotic translation initiation factor 4A, isoform 1, pseudoge NG_000925 Homo sapiens eukaryotic translation initiation factor 3, subunit 5 epsilon, 47k NG_000927 Homo sapiens cytochrome P450, family 4, subfamily F, polypeptide 3-like ps NG_000929 Homo sapiens complement component 1, q subcomponent binding protein, r NG_000930 Homo sapiens F-box and WD-40 domain protein 11 pseudogene 1 (FBXW1: NG 000933 Homo sapiens endoplasmic reticulum lumenal protein 28 pseudogene (ERP2 NG 000936 Homo sapiens plakophilin 2 pseudogene 1 (PKP2P1) on chromosome 12 NG 000938 Homo sapiens keratin, hair, basic, pseudogene 1 (KRTHBP1) on chromosom NG_000939 Homo sapiens keratin associated protein 2 pseudogene 1 (KRTAP2P1) on cl NG_000940 Homo sapiens keratin, hair, basic, pseudogene 2 (KRTHBP2) on chromosom NG_000941 Homo sapiens keratin associated protein 3 pseudogene 1 (KRTAP3P1) on cl NG 000942 Homo sapiens keratin associated protein 9 pseudogene 1 (KRTAP9P1) on cl NG 000943 Homo sapiens keratin, hair, basic, pseudogene 3 (KRTHBP3) on chromosom NG 000944 Homo sapiens keratin, hair, basic, pseudogene 4 (KRTHBP4) on chromosom NG 000945 Homo sapiens ribosomal protein L12-like 3 (RPL12L3) pseudogene on chror NG 000946 Homo sapiens ribosomal protein S2-like 1 (RPS2L1) pseudogene on chromo NG_000948 Homo sapiens 5'-nucleotidase, cytosolic III pseudogene 1 (NT5C3P1) on chr NG 000949 Homo sapiens pleckstrin homology domain containing, family A member 3 ps NG_000950 Homo sapiens ribosomal protein S4-like 2 (RPS4L2) pseudogene on chromo NG 000951 Homo sapiens ribosomal protein S15a pseudogene 1 (RPS15AP1) on chrom NG 000952 Homo sapiens ribosomal protein S10-like (RPS10L) pseudogene on chromo! NG 000953 Homo sapiens ribosomal protein S23 pseudogene 1 (RPS23P1) on chromos NG 000954 Homo sapiens NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 3, 12 NG 000955 Homo sapiens NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 3, 12 NG 000956 Homo sapiens NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 3, 12 NG 000957 Homo sapiens NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 3, 12 NG 000958 Homo sapiens NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 3, 12 NG 000959 Homo sapiens similar to DNAJ (HEJ1) pseudogene on chromosome 1 Homo sapiens ribosomal protein S27a pseudogene 1 (RPS27AP1) on chrom NG_000960 NG_000961 Homo sapiens RNA, U73B small nucleolar (U73B) pseudogene on chromosc NG_000962 Homo sapiens ribosomal protein L12 pseudogene 4 (RPL12P4) on chromosomal NG_000963 Homo sapiens ribosomal protein L38 pseudogene 1 (RPL38P1) on chromosomal Homo sapiens ribosomal protein L12-like 2 (RPL12L2) pseudogene on chror NG_000964 NG_000965 Homo sapiens ribosomal protein L27a pseudogene (RPL27AP) on chromosc Homo sapiens ribosomal protein L13 pseudogene 2 (RPL13P2) on chromosomal NG_000966 NG_000967 Homo sapiens ribosomal protein S4-like (RPS4L) pseudogene on chromosor NG 000968 Homo sapiens mitochondrial ribosomal protein S16 pseudogene (MRPS16P) NG_000969 Homo sapiens ribosomal protein L7a like 2 (RPL7AL2) pseudogene on chror

Homo sapiens ribosomal protein S18 pseudogene 1 (RPS18P1) on chromos NG 000970 Homo sapiens ribosomal protein L23a pseudogene 6 (RPL23AP6) on chrom-NG 000971 Homo sapiens ribosomal protein S11, pseudogene 1 (RPS11P1) on chromos NG 000972 Homo sapiens ribosomal protein, large, P0 pseudogene 1 (RPLP0P1) on chr NG 000973 NG 000974 Homo sapiens ribosomal protein L7a-like 3 (RPL7AL3) pseudogene on chror Homo sapiens ribosomal protein L15 pseudogene 1 (RPL15P1) on chromoso NG_000975 Homo sapiens mitochondrial ribosomal protein S11 pseudogene 1 (MRPS11 NG_000977 Homo sapiens ribosomal protein L12 pseudogene 3 (RPL12P3) on chromosomal NG_000978 NG_000979 Homo sapiens high-mobility group (nonhistone chromosomal) protein 4-like 2 NG 000980 Homo sapiens ribosomal protein L21 pseudogene 4 (RPL21P4) on chromosomal pseudogene 4 (RPL21P4) on chrom Homo sapiens ribosomal protein L7 pseudogene 2 (RPL7P2) on chromosom NG 000981 Homo sapiens ribosomal protein L37 pseudogene 1 (RPL37P1) on chromosomal NG 000982 Homo sapiens ribosomal protein L36 pseudogene 1 (RPL36P1) on chromosomal NG 000983 Homo sapiens ribosomal protein S3A pseudogene 3 (RPS3AP3) on chromos NG 000984 Homo sapiens ribosomal protein L21 pseudogene 2 (RPL21P2) on chromoso NG 000986 Homo sapiens ribosomal protein L35a pseudogene (RPL35AP) on chromosc NG_000987 Homo sapiens ribosomal protein L37a pseudogene 1 (RPL37AP1) on chrom NG_000988 NG_000989 Homo sapiens ribosomal protein L31 pseudogene 3 (RPL31P3) on chromosomal Homo sapiens ribosomal protein L39 pseudogene (RPL39P) on chromosome NG_000990 Homo sapiens ribosomal protein L17 pseudogene 1 (RPL17P1) on chromosomal NG_000991 Homo sapiens ribosomal protein L36 pseudogene 2 (RPL36P2) on chromosomal NG 000994 Homo sapiens ribosomal protein S27a pseudogene 2 (RPS27AP2) on chrom NG 000995 Homo sapiens ribosomal protein L31 pseudogene 2 (RPL31P2) on chromosomal pseudogene 2 (RPL31P2) on chrom NG 000996 Homo sapiens ribosomal protein S3 pseudogene 1 (RPS3P1) on chromosom NG 000997 Homo sapiens ribosomal protein L7A-like 4 (RPL7AL4) pseudogene on chroi NG 000999 Homo sapiens ribosomal protein L24 pseudogene 1 (RPL24P1) on chromosomal NG 001000 Homo sapiens ribosomal protein S10 pseudogene 2 (RPS10P2) on chromos NG 001001 Homo sapiens ribosomal protein L19 pseudogene 1 (RPL19P1) on chromosomal NG 001002 Homo sapiens ribosomal protein S3 pseudogene 2 (RPS3P2) on chromosom NG 001004 Homo sapiens ribosomal protein L7 pseudogene 3 (RPL7P3) on chromosom NG 001005 Homo sapiens heat shock 10kDa protein 1 (chaperonin 10) pseudogene 1 (H NG 001006 Homo sapiens cytochrome c oxidase II-like (MTCO2L) pseudogene on chron NG 001007 Homo sapiens peptidylprolyl isomerase A (cyclophilin A)-like 2 (PPIAL2) psei NG_001008 Homo sapiens estrogen-related receptor alpha pseudogene (ESRRAP) on ch NG_001009 Homo sapiens similar to RP42 homolog (LOC153893) pseudogene on chrom NG_001010 NG_001012 Homo sapiens TAF2G-like gene (TAF2GL) pseudogene on chromosome 19 Homo sapiens glutaredoxin (thioltransferase) pseudogene (GLRXP) on chror NG_001013 Homo sapiens peptidylprolyl isomerase A (cyclophilin A) pseudogene 3 (PPI) NG 001014 Homo sapiens C-reactive protein pseudogene (LOC171422) on chromosome NG 001016 Homo sapiens FUSIP1 pseudogene (pFUSIP1) on chromosome 20 NG 001017 Homo sapiens immunoglobulin heavy locus (IGH.1@) on chromosome 14 NG_001019 Homo sapiens cystatin pseudogene 1 (CSTP1) on chromosome 20 NG_001020 Homo sapiens cytochrome b-5 pseudogene 4 (CYB5P4) on chromosome 20 NG_001021 Homo sapiens RNA binding motif protein, X-linked pseudogene 1 (RBMXP1) NG 001022 Homo sapiens eukaryotic translation initiation factor 3, subunit 6 48kDa pseu NG 001023 Homo sapiens keratin 18 pseudogene 1 (KRT18P1) on chromosome 6 NG 001024 Homo sapiens peptidylprolyl isomerase (cyclophilin) pseudogene 9 (PPIP9) (NG_001025 Homo sapiens protein phosphatase 1, regulatory (inhibitor) subunit 2 pseudo NG 001026 Homo sapiens ribosomal protein L23a pseudogene 1 (RPL23AP1) on chrom-NG 001027 Homo sapiens eukaryotic translation termination factor 1 pseudogene 1 (ETF NG 001028 Homo sapiens makorin, ring finger protein, pseudogene 3 (MKRNP3) on chrc NG 001029 Homo sapiens nuclear fragile X mental retardation protein interacting protein NG_001030 Homo sapiens ADP-ribosylation factor 4 pseudogene 2 (ARF4P2) on chromc NG 001031 Homo sapiens cell division cycle 42 pseudogene 1 (CDC42P1) on chromoso NG 001032 Homo sapiens cytochrome c oxidase subunit VIc pseudogene 2 (COX6CP2) NG_001033 Homo sapiens endosulfine alpha pseudogene (ENSAP) on chromosome 20 NG_001035 Homo sapiens FAT tumor suppressor homolog 1 (Drosophila) pseudogene 1 NG_001036

NG 001037

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Homo sapiens ferritin, light polypeptide pseudogene (FTLP) on chromosome NG_001038 Homo sapiens glyceraldehyde-3-phosphate dehydrogenase pseudogene 2 (I NG 001040 Homo sapiens glutathione S-transferase M3 pseudogene (GSTM3P) on chro Homo sapiens heterogeneous nuclear ribonucleoprotein A1 pseudogene 3 (i NG_001041 NG_001043 Homo sapiens keratin 18 pseudogene 3 (KRT18P3) on chromosome 20 NG 001045 Homo sapiens laminin receptor 1 pseudogene 1 (LAMR1P1) on chromosome Homo sapiens proliferation-associated 2G4 pseudogene 2 (PA2G4P2) on ch NG 001046 NG_001047 Homo sapiens phosphoglycerate mutase 3, pseudogene (PGAM3P) on chro NG 001048 Homo sapiens peptidylprolyl isomerase A (cyclophilin A) pseudogene 2 (PPI NG 001049 Homo sapiens peptidylprolyl isomerase (cyclophilin) pseudogene 11 (PPIP1 NG 001050 Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase. NG 001051 Homo sapiens prothymosin, alpha pseudogene 6 (PTMAP6) on chromosome NG 001052 Homo sapiens ring finger protein 11B, pseudogene (RNF11B) on chromoson NG_001053 Homo sapiens small inducible cytokine subfamily E, member 1 (endothelial n NG_001054 Homo sapiens splicing factor 3a, subunit 3 pseudogene (SF3A3P) on chroma NG 001055 Homo sapiens synaptosomal-associated protein, 23kDa pseudogene (SNAP Homo sapiens small nuclear ribonucleoprotein polypeptide F pseudogene 1 NG 001056 Homo sapiens spermidine synthase pseudogene 1 (SRMP1) on chromosomic NG 001057 NG_001058 Homo sapiens suppression of tumorigenicity 13 (colon carcinoma) (Hsp70 in Homo sapiens tropomyosin 5, pseudogene (TPM5P) on chromosome 20 NG_001060 NG_001061 Homo sapiens ubiquitin-conjugating enzyme E2 variant 1 pseudogene 1 (UB NG_001062 Homo sapiens exportin, tRNA (nuclear export receptor for tRNAs) pseudoger NG 001063 Homo sapiens lysophospholipase I-like (LOC157713) pseudogene on chrom NG 001064 Homo sapiens similar to orphan seven transmembrane receptor (RH_II/GuBI NG 001065 Homo sapiens RH-II/GuB pseudogene 1 (RH-II/GuBp1) on chromosome 2 NG 001066 Homo sapiens toll-like receptor 7-like (TLR7-like) pseudogene on chromosor NG 001067 Homo sapiens alpha-2-macroglobulin pseudogene (A2MP) on chromosome Homo sapiens actin, gamma pseudogene 1 (ACTGP1) on chromosome 3 NG_001068 NG_001069 Homo sapiens actin, gamma pseudogene 9 (ACTGP9) on chromosome 6 Homo sapiens adenylate kinase 3 pseudogene 1 (AK3P1) on chromosome 1 NG_001070 NG_001071 Homo sapiens aldehyde reductase (aldose reductase) pseudogene (ALDRP) NG_001073 Homo sapiens S-adenosylmethionine decarboxylase pseudogene 1 (AMDP1 NG_001074 Homo sapiens v-raf murine sarcoma 3611 viral oncogene homolog pseudoge NG 001075 Homo sapiens ADP-ribosylation factor 4 pseudogene (ARF4P) on chromosol NG 001076 Homo sapiens ADP-ribosyltransferase 2 pseudogene (RT6 antigen homolog, NG_001077 Homo sapiens argininosuccinate synthetase pseudogene 1 (ASSP1) on chro NG_001078 Homo sapiens argininosuccinate synthetase pseudogene 3 (ASSP3) on chro NG 001080 Homo sapiens activating transcription factor 4 pseudogene (tax-responsive e NG_001081 Homo sapiens ATPase, Na+/K+ transporting, beta polypeptide-like 1 (ATP1E NG 001082 Homo sapiens antiquitin-like 1 (ATQL1) pseudogene on chromosome 5 NG_001083 Homo sapiens antiquitin-like 3 (ATQL3) pseudogene on chromosome 7 Homo sapiens antiquitin-like 4 (ATQL4) pseudogene on chromosome 10 NG_001084 NG_001085 Homo sapiens brain cytoplasmic RNA 1, pseudogene 2 (BCYRN1P2) on chr NG_001086 Homo sapiens basic transcription factor 3, pseudogene 1 (BTF3P1) on chror Homo sapiens solute carrier family 25 (carnitine/acylcarnitine translocase), nr NG_001087 Homo sapiens calcitonin pseudogene (CALCP) on chromosome 11 NG_001088 NG_001089 Homo sapiens calmodulin 1 (phosphorylase kinase, delta) pseudogene 1 (C/ NG_001090 Homo sapiens calmodulin 1 (phosphorylase kinase, delta) pseudogene 2 (C/ NG_001091 Homo sapiens calmodulin 2 pseudogene 2 (CALM2P2) on chromosome 10 NG_001092 Homo sapiens cyclin D2 pseudogene (CCND2P) on chromosome 11 NG 001093 Homo sapiens cyclin D3 pseudogene (CCND3P) on chromosome 6 NG 001094 Homo sapiens carcinoembryonic antigen-related cell adhesion molecule pse NG 001095 Homo sapiens carcinoembryonic antigen-related cell adhesion molecule pse Homo sapiens carcinoembryonic antigen-related cell adhesion molecule pse NG_001096 Homo sapiens carcinoembryonic antigen-related cell adhesion molecule pse NG_001097 Homo sapiens carcinoembryonic antigen-related cell adhesion molecule pse NG 001098 NG_001099 Homo sapiens carcinoembryonic antigen-related cell adhesion molecule pse

NG 001100	Homo sapiens carcinoembryonic antigen-related cell adhesion molecule pse
NG_001101	Homo sapiens carcinoembryonic antigen-related cell adhesion molecule pse
NG 001102	Homo sapiens carcinoembryonic antigen-related cell adhesion molecule pse
NG 001103	Homo sapiens carcinoembryonic antigen-related cell adhesion molecule pse
_	Homo sapiens carcinoembryonic antigen-related cell adhesion molecule pse
NG_001104	Homo sapiens cytochrome c oxidase subunit VIa polypeptide 1 pseudogene
NG_001105	Homo sapiens cytochiome c oxidase subthit via polypoptida i posadogone Homo sapiens ceruloplasmin (ferroxidase) pseudogene (CPP) on chromosor
NG_001106	Homo sapiens cerulopiasmini (lenoxidase) pseudogene (ciri) on chromosol
NG_001107	Homo sapiens crystallin, gamma F pseudogene 1 (CRYGFP1) on chromoso
NG_001108	Homo sapiens crystallin, gamma G pseudogene 1 (CRYGGP1) on chromoso
NG_001109	Homo sapiens crystallin, zeta (quinone reductase) pseudogene 1 (CRYZP1)
NG_001110	Homo sapiens catenin (cadherin-associated protein), alpha pseudogene 1 (C
NG_001112	Homo sapiens diazepam binding inhibitor-like 2 (pseudogene) (DBIL2) on ch
NG_001113	Homo sapiens dihydrofolate reductase pseudogene 2 (DHFRP2) on chromos
NG_001114	Homo sapiens ELK2, member of ETS oncogene family, pseudogene 1 (ELK2
NG_001115	Homo sapiens enolase 1, (alpha) pseudogene (ENO1P) on chromosome 1
NG_001116	Homo sapiens ferredoxin pseudogene 2 (FDXP2) on chromosome 21
NG_001117	Homo sapiens ferredoxin pseudogene 1 (FDXP1) on chromosome 20
NG_001118	Homo sapiens ferrochelatase pseudogene (FECHP) on chromosome 3
NG_001119	Homo sapiens forkhead box O3B (FOXO3B) pseudogene on chromosome 1
NG_001120	Homo sapiens forkhead box O1B (FOXO1B) pseudogene on chromosome 5
NG_001121	Homo sapiens ferritin, heavy polypeptide pseudogene 2 (FTHP2) on chromo:
NG_001122	Homo sapiens fucosidase, alpha-L- 1, tissue pseudogene (FUCA1P) on chro
NG_001123	Homo sapiens glyceraldehyde-3-phosphate dehydrogenase pseudogene 1 (
NG_001124	Homo sapiens GDP dissociation inhibitor 2 pseudogene (GDI2P) on chromos
NG_001125	Homo sapiens glycoprotein, alpha-galactosyltransferase 1 (GGTA1) pseudoc
NG_001126	Homo sapiens glycerol kinase pseudogene 1 (GKP1) on chromosome 1
NG_001127	Homo sapiens glycerol kinase pseudogene 6 (GKP6) on chromosome X
NG_001128	Homo sapiens glutamate dehydrogenase pseudogene 2 (GLUDP2) on chron
NG_001129	Homo sapiens glutamate dehydrogenase pseudogene 5 (GLUDP5) on chron
NG_001130	Homo sapiens GM2 ganglioside activator pseudogene (GM2AP) on chromos
NG_001131	Homo sapiens G protein-coupled receptor 32, pseudogene (GPR32P) on chr
NG_001132	Homo sapiens G protein-coupled receptor 33, pseudogene (GPR33) on chro
NG_001133	Homo sapiens G protein-coupled receptor kinase 6 pseudogene (GRK6PS) (
NG_001134	Homo sapiens glutathione peroxidase pseudogene 2 (GPXP2) on chromosol
NG_001135	Homo sapiens glutathione S-transferase A pseudogene 1 (GSTAP1) on chro
NG_001136	Homo sapiens gulonolactone (L-) oxidase pseudogene (GULOP) on chromos
NG_001141	Homo sapiens high-mobility group (nonhistone chromosomal) protein 17 pse
NG_001142	Homo sapiens high-mobility group (nonhistone chromosomal) protein 17 pse
NG_001144	Homo sapiens heat shock 70kDa protein pseudogene 1 (HSPAP1) on chrom
NG_001145	Homo sapiens heat shock 60kDa protein 1 (chaperonin) pseudogene 1 (HSF
NG_001146	Homo sapiens heat shock 60kDa protein 1 (chaperonin) pseudogene 2 (HSF
NG_001147	Homo sapiens heat shock 60kDa protein 1 (chaperonin) pseudogene 3 (HSF
NG_001148	Homo sapiens heat shock 60kDa protein 1 (chaperonin) pseudogene 4 (HSF
NG_001149	Homo sapiens iduronate 2-sulfatase pseudogene 1 (IDSP1) on chromosome Homo sapiens interferon, omega 15 (pseudogene) (IFNWP15) on chromosoi
NG_001150	Homo sapiens interferon, ornega 15 (pseudogene) (interver 15) on chiomoso
NG_001151	Homo sapiens recombining binding protein suppressor of hairless (Drosophil Homo sapiens IMP (inosine monophosphate) dehydrogenase-like 1 (IMPDHI
NG_001152	Homo sapiens Kallmann syndrome sequence pseudogene (KALP) on chrom
NG_001153	
NG_001155	
NG_001156	
NG_001157	
NG_001158	
NG_001159	(ATTV4D)
NG_001160	Homo sapiens NADH dehydrogenase (ubiquinone) flavoprotein 2 pseudoger
NG_001161	
NG_001162 NG_001163	
149_001103	Lionio adviono madioaprioamini i (madioalai piraspiraspiraspiraspiraspiraspiraspiras

NG_001164	Homo sapiens nucleophosmin 1 (nucleolar phosphoprotein B23, numatrin) p:
NG 001165	Homo sapiens nucleophosmin 1 (nucleolar phosphoprotein B23, numatrin) p
NG 001166	Homo sapiens nucleophosmin 1 (nucleolar phosphoprotein B23, numatrin) p
NG 001167	Homo sapiens nucleophosmin 1 (nucleolar phosphoprotein B23, numatrin) p
NG 001169	Homo sapiens ornithine aminotransferase-like 3 (pseudogene) (OATL3) on c
NG 001170	Homo sapiens phosphoglycerate kinase 1, pseudogene 1 (PGK1P1) on chro
NG_001170	Homo sapiens prohibitin pseudogene 1 (PHBP1) on chromosome 6
-	Homo sapiens phosphorylase kinase, beta pseudogene 1 (PHKBP1) on chro
NG_001172	Library and a sharehandage kinase, beta pseudogene 2 (PUKRP2) on chro
NG_001173	Homo sapiens phosphorylase kinase, beta pseudogene 2 (PHKBP2) on chro
NG_001174	Homo sapiens phosphatidylinositol glycan, class A, pseudogene 1 (PIGAP1)
NG_001175	Homo sapiens phosphatidylinositol glycan, class C, pseudogene 1 (PIGCP1)
NG_001176	Homo sapiens phosphatidylinositol glycan, class F, pseudogene 1 (PIGFP1)
NG_001177	Homo sapiens peptidylprolyl isomerase (cyclophilin) pseudogene 1 (PPIP1) (
NG_001178	Homo sapiens protein phosphatase 1, regulatory (inhibitor) subunit 8 pseudo
NG_001179	Homo sapiens protein S pseudogene (beta) (PROSP) on chromosome 3
NG_001180	Homo sapiens prothymosin, alpha pseudogene 3 (gene sequence 34) (PTM/
NG 001181	Homo sapiens prothymosin, alpha pseudogene 4 (gene sequence 112) (PTM
NG 001182	Homo sapiens protein tyrosine phosphatase type IVA pseudogene 2 (PTP4A
NG 001183	Homo sapiens RNA, U1 small nuclear pseudogene 1 (RNU1P1) on chromos
NG_001184	Homo sapiens RNA, U1 small nuclear pseudogene 2 (RNU1P2) on chromos
NG 001185	Homo sapiens RNA, U3 small nucleolar pseudogene 1 (RNU3P1)
NG 001186	Homo sapiens RNA, U4 small nuclear pseudogene 1 (U4/7) (RNU4P1) on ch
NG_001187	Homo sapiens RNA, U4 small nuclear pseudogene 2 (U4/14) (RNU4P2) on c
NG 001188	Homo sapiens RNA, U7 small nuclear pseudogene 1 (RNU7P1) on chromos
. –	Homo sapiens RNA, U7 small nuclear pseudogene 2 (RNU7P2) on chromos
NG_001189	Hama agricus DNA LIZ small muclear pseudogene 2 (DNI 1702) on chromos
NG_001190	Homo sapiens RNA, U7 small nuclear pseudogene 3 (RNU7P3) on chromos
NG_001191	Homo sapiens RNA, U7 small nuclear pseudogene 4 (RNU7P4) on chromos
NG_001192	Homo sapiens ribosomal protein L9 pseudogene 1 (RPL9P1) on chromosom
NG_001193	Homo sapiens ribosomal protein L7 pseudogene (RPL7P) on chromosome 5
NG_001194	Homo sapiens sterol-C4-methyl oxidase pseudogene (SC4MOP) on chromos
NG_001195	Homo sapiens SHC (Src homology 2 domain containing) transforming protein
NG_001196	Homo sapiens steroid-5-alpha-reductase, alpha polypeptide pseudogene 1 (:
NG_001197	Homo sapiens steroid sulfatase (microsomal) pseudogene (STSP) on chrom-
NG_001198	Homo sapiens eukaryotic translation termination factor 1 pseudogene 2 (ETF
NG_001199	Homo sapiens TAR (HIV) RNA binding protein 2 pseudogene (TARBP2P) on
NG 001200	Homo sapiens transcription elongation factor A (SII), 1 pseudogene (TCEA1I
NG_001201	Homo sapiens thioredoxin-dependent peroxide reductase 2 (thiol-specific and
NG 001202	Homo sapiens transcription factor Dp-1 pseudogene (TFDP1P) on chromoso
NG 001204	Homo sapiens tRNA leucine (AAG) pseudogene 1 (TRLP1) on chromosome
NG_001205	Homo sapiens tRNA methionine elongator pseudogene 1 (TRMEP1) on chro
NG 001206	Homo sapiens tubulin, beta polypeptide pseudogene 1 (TUBBP1) on chromo
NG 001207	Homo sapiens ubiquitin A-52 residue ribosomal protein fusion product 1 pseu
NG_001208	Homo sapiens ubiquitin A-52 residue ribosomal protein fusion product 1 pset
NG 001209	Homo sapiens ubiquitin-conjugating enzyme E2L 4 (UBE2L4) pseudogene o
_	Homo sapiens ubiquitin protein ligase E3A pseudogene 2 (UBE3AP2) on chr
NG_001210	Homo sapiens urate oxidase (UOX) pseudogene on chromosome 1
NG_001211	
NG_001212	Homo sapiens von Willebrand factor pseudogene (VWFP) on chromosome 2
NG_001213	Homo sapiens v-yes-1 Yamaguchi sarcoma viral oncogene homolog pseudo
NG_001214	Homo sapiens zinc finger protein 75b (ZNF75B) pseudogene on chromosom
NG_001215	Homo sapiens interferon-induced protein with tetratricopeptide repeats 1, pse
NG_001216	Homo sapiens a disintegrin and metalloproteinase domain 1 (fertilin alpha) p
NG_001217	Homo sapiens G protein-coupled receptor 53, pseudogene (GPR53P) on chr
NG_001218	Homo sapiens synaptogyrin 2 pseudogene (SYNGR2P) on chromosome 15
NG_001219	Homo sapiens cytochrome c oxidase subunit VIc pseudogene 1 (COX6CP1)
NG_001220	Homo sapiens cytochrome c oxidase subunit Va pseudogene 1 (COX5AP1)
NG_001221	Homo sapiens cytochrome c oxidase subunit VIIc pseudogene 1 (COX7CP1)
NG_001222	Homo sapiens v-myc myelocytomatosis viral oncogene homolog 3 pseudoge
_	

NG 001223 Homo sapiens voltage-dependent anion channel 1-like pseudogene (VDAC1 NG 001224 Homo sapiens voltage-dependent anion channel 1 pseudogene (VDAC1P) o NG 001226 Homo sapiens H2B histone family, member O (H2BFO) pseudogene NG_001228 Homo sapiens cold shock domain protein A pseudogene 1 (CSDAP1) on chr NG_001229 Homo sapiens nuclear distribution gene C homolog (A. nidulans) pseudogen NG 001230 Homo sapiens nuclear distribution gene C homolog (A. nidulans) pseudogen Homo sapiens nucleophosmin 1 (nucleolar phosphoprotein B23, numatrin) p NG_001231 NG_001232 Homo sapiens nucleophosmin 1 (nucleolar phosphoprotein B23, numatrin) p NG_001233 Homo sapiens nucleophosmin 1 (nucleolar phosphoprotein B23, numatrin) p NG_001234 Homo sapiens macrophage stimulating, pseudogene 8 (MSTP8) on chromos NG_001235 Homo sapiens macrophage stimulating, pseudogene 7 (MSTP7) on chromos NG_001236 Homo sapiens macrophage stimulating, pseudogene 6 (MSTP6) on chromos Homo sapiens macrophage stimulating, pseudogene 5 (MSTP5) on chromos NG 001237 NG_001238 Homo sapiens macrophage stimulating, pseudogene 4 (MSTP4) on chromos NG 001239 Homo sapiens macrophage stimulating, pseudogene 3 (MSTP3) on chromos NG 001240 Homo sapiens macrophage stimulating, pseudogene 2 (MSTP2) on chromos NG_001241 Homo sapiens macrophage stimulating, pseudogene 1 (MSTP1) on chromos NG_001242 Homo sapiens teratocarcinoma-derived growth factor 5, pseudogene (TDGF: Homo sapiens teratocarcinoma-derived growth factor 4, pseudogene (TDGF NG_001243 NG_001244 Homo sapiens teratocarcinoma-derived growth factor 2, pseudogene (TDGF; NG 001245 Homo sapiens glycosylphosphatidylinositol anchor attachment 1 pseudogene Homo sapiens ATP-binding cassette, sub-family D (ALD), member 1, pseudc NG_001246 Homo sapiens protocadherin alpha 14 pseudogene (PCDHA14) on chromos NG_001247 Homo sapiens RNA, U6 small nuclear pseudogene 1 (RNU6P1) on chromos NG 001248 NG 001249 Homo sapiens RNA, U4 small nuclear pseudogene 6 (RNU4P6) on chromos NG 001250 Homo sapiens RNA, U4 small nuclear pseudogene 5 (RNU4P5) on chromos Homo sapiens RNA, U4 small nuclear pseudogene 4 (RNU4P4) on chromos NG 001251 NG 001252 Homo sapiens RNA, U4 small nuclear pseudogene 3 (RNU4P3) on chromos NG 001253 Homo sapiens RNA, U3 small nucleolar pseudogene 4 (RNU3P4) on chromo Homo sapiens RNA, U3 small nucleolar pseudogene 3 (RNU3P3) on chromc NG 001254 Homo sapiens RNA, U3 small nucleolar pseudogene 2 (RNU3P2) on chromo NG 001255 Homo sapiens RNA, U2 small nuclear pseudogene 3 (RNU2P3) on chromos NG 001256 Homo sapiens RNA, U2 small nuclear pseudogene 2 (RNU2P2) on chromos NG 001257 Homo sapiens RNA, U2 small nuclear pseudogene 1 (RNU2P1) NG_001258 Homo sapiens RNA, U1 small nuclear pseudogene 10 (RNU1P10) on chrom NG_001259 Homo sapiens RNA, U1 small nuclear pseudogene 9 (RNU1P9) on chromos NG_001260 NG_001261 Homo sapiens RNA, U1 small nuclear pseudogene 8 (RNU1P8) on chromos Homo sapiens RNA, U1 small nuclear pseudogene 7 (RNU1P7) NG 001262 Homo sapiens RNA, U1 small nuclear pseudogene 6 (RNU1P6) on chromos NG 001263 Homo sapiens RNA, U1 small nuclear pseudogene 5 (RNU1P5) on chromos NG_001264 Homo sapiens ATP-binding cassette, sub-family D (ALD), member 1, pseudc NG_001265 NG_001266 Homo sapiens poly(A) binding protein, cytoplasmic, pseudogene 3 (PABPCF Homo sapiens poly(A) binding protein, cytoplasmic, pseudogene 2 (PABPCF NG_001267 NG_001268 Homo sapiens poly(A) binding protein, cytoplasmic, pseudogene 1 (PABPCF Homo sapiens ATP-binding cassette, sub-family D (ALD), member 1, pseudo NG_001269 Homo sapiens ATP-binding cassette, sub-family D (ALD), member 1, pseudc NG_001270 Homo sapiens molybdenum cofactor synthesis 1 pseudogene 1 (MOCS1P1) NG 001271 Homo sapiens G protein-coupled receptor 79 pseudogene (GPR79) on chror NG 001272 Homo sapiens mitogen-activated protein kinase kinase 1 pseudogene 1 (MA NG 001273 Homo sapiens protein phosphatase 1, regulatory (inhibitor) subunit 14B pseu NG 001274 Homo sapiens chemokine (C-X-C motif) ligand 1 pseudogene (CXCL1P) on a NG_001275 Homo sapiens nuclease sensitive element binding protein 1 pseudogene (NS NG_001276 Homo sapiens capping protein (actin filament) muscle Z-line, alpha 1 pseudc NG 001277 Homo sapiens UDP glycosyltransferase 2 family, polypeptide B28 pseudogel NG 001278 Homo sapiens UDP glycosyltransferase 2 family, polypeptide B27 pseudogel NG 001279 Homo sapiens UDP glycosyltransferase 2 family, polypeptide B26 pseudoger NG 001280 Homo sapiens UDP glycosyltransferase 2 family, polypeptide B25 pseudoger NG 001281

NG_001282	Homo sapiens UDP glycosyltransferase 2 family, polypeptide B24 pseudoger
NG_001286	Homo sapiens fatty acid binding protein 3, pseudogene 2 (FABP3P2) on chro
NG_001287	Homo sapiens uracil-DNA glycosylase pseudogene 1 (UNGP1) on chromosc
NG_001288	Homo sapiens uracil-DNA glycosylase pseudogene 2 (UNGP2) on chromosc
NG 001289	Homo sapiens Zn-15 related zinc finger protein RLF pseudogene (RLFP)
NG 001290	Homo sapiens 6-pyruvoyltetrahydropterin synthase pseudogene (PTS-P1) or
NG 001291	Homo sapiens recombining binding protein suppressor of hairless (Drosophil
NG 001292	Homo sapiens recombining binding protein suppressor of hairless (Drosophil
NG 001293	Homo sapiens COX17 pseudogene (LOC81993) on chromosome 13
NG 001294	Homo sapiens cytochrome P450, subfamily 51 pseudogene 1 (CYP51P1) on
NG 001295	Homo sapiens ribosomal protein S19 pseudogene 1 (RPS19P1) on chromos
NG 001296	Homo sapiens ribosomal protein S19 pseudogene 2 (RPS19P2) on chromos
NG 001297	Homo sapiens thioredoxin 1 pseudogene 2 (LOC93202) on chromosome 10
NG 001298	Homo sapiens family with sequence similarity 8, member A5 pseudogene (F)
_	Homo sapiens family with sequence similarity 8, member A6 pseudogene (F)
NG_001299	
NG_001300	Homo sapiens cytochrome c oxidase subunit VIIb pseudogene 1 (COX7BP1)
NG_001301	Homo sapiens ribosomal protein L37 pseudogene 2 (RPL37P2) on chromosomal protein L3 pseudogene 2 (RPL3P2) on chromosomal protein L37 pseudogene 2 (RPL3P2) on chromosomal pseudogene 2 (RPL3P2) on chromosoma
NG_001302	Homo sapiens ribosomal protein L3 pseudogene 2 (RPL3P2) on chromosom
NG_001303	Homo sapiens thioredoxin 1 pseudogene 4 (LOC124974) on chromosome 1:
NG_001305	Homo sapiens mitogen-activated protein kinase kinase 4 pseudogene (LOC1
NG_001306	Homo sapiens FBR-MuSV-associated ubiquitously expressed (fox derived) p
NG_001307	Homo sapiens protein phosphatase 2, regulatory subunit B (B56), gamma isc
NG_001308	Homo sapiens hydroxysteroid (17-beta) dehydrogenase 7 pseudogene 1 (HS
NG_001309	Homo sapiens thioredoxin 1 pseudogene 1 (LOC151276) on chromosome 2
NG_001311	Homo sapiens deleted in split-hand/split-foot 1pseudogene (DSS1P1) on chr
NG_001313	Homo sapiens lactate dehydrogenase pseudogene (LOC158222) on chromo
NG_001314	Homo sapiens PHD finger protein 10 pseudogene 1 (PHF10P1) on chromosi
NG_001315	Homo sapiens chromobox homolog 3 gamma pseudogene (LOC159770) on
NG_001316	Homo sapiens ribosomal protein L7a pseudogene 2 (RPL7AP2) on chromos
NG_001317	Homo sapiens ribosomal protein L7a pseudogene 3 (RPL7AP3) on chromosomo sapiens HSP40 pseudogene (HSP40) on chromosome 2
NG_001318	Homo sapiens ubiquitin-conjugating enzyme-like (UBCH7N2) pseudogene o
NG_001319	Homo sapiens thioredoxin 1 pseudogene 6 (AF357533) on chromosome 1
NG_001321	Homo sapiens thioredoxin 1 pseudogene 6 (Al 357535) on chromosome 2
NG_001322	Homo sapiens glutaredoxin pseudogene 2 (GLRXP2) on chromosome 14
NG_001323	Homo sapiens thioredoxin 1 pseudogene 5 (AF357532) on chromosome 1
NG_001324	Homo sapiens EPF5 pseudogene (EPF5) on chromosome 9
NG_001325	Homo sapiens EPF8 pseudogene (EPF8) on chromosome 16
NG_001326	Homo sapiens sperm autoantigenic protein 17 pseudogene 1 (SPA17P1) on
NG_001328	Homo sapiens high mobility group AT-hook 1-like 2 (HMGA1L2) pseudogene
NG_001329	Homo sapiens thioredoxin 1 pseudogene 3 (AF357530) on chromosome 4
NG_001330	Homo sapiens 3-oxoacid CoA transferase 2 pseudogene (OXCT2P) on chror
NG_001331	Homo sapiens T cell receptor alpha delta locus (TCRA/TCRD) on chromosor
NG_001332	Homo sapiens T cell receptor beta locus (TRB@) on chromosome 7
NG_001333	Homo sapiens growth hormone locus (GH@) on chromosome 17
NG_001334 NG_001335	Homo sapiens genomic large histone family cluster (HFL@) on chromosome
_	Homo sapiens T cell receptor gamma locus (TRG@) on chromosome 7
NG_001336 NG 001337	Homo sapiens T cell receptor gantina locus (TRG@) on chromosome 7 Homo sapiens T cell receptor beta variable orphans on chromosome 9 (TRB)
_	Homo sapiens a disintegrin and metalloproteinase domain 3b (cyritestin 2) (/
NG_001526	Homo sapiens phosphoglycerate kinase 1, pseudogene 2 (PGK1P2) on chro
NG_001528 NG 001529	Homo sapiens tyrosinase-like (TYRL) pseudogene on chromosome 11
	Homo sapiens similar to tyrosine 3-monooxygenase/tryptophan 5-monooxyge
NG_001531 NG_001532	Homo sapiens similar to casein kinase 1, alpha 1 (LOC120321) pseudogene
NG_001532 NG_001533	Homo sapiens proteasome (prosome, macropain) subunit, beta type, 3 pseu-
NG_001535 NG_001534	Homo sapiens legumain 2 pseudogene (LGMN2P) on chromosome 13
NG_001535	
NG_001537	
.10_001001	

NG 001538 Homo sapiens proteasome (prosome, macropain) subunit, beta type, 3 pseu-NG 001539 Homo sapiens mitochondrial ribosomal protein L9 pseudogene (MRPL9P1) c Homo sapiens ATP synthase, H+ transporting, mitochondrial F0 complex, su NG 001540 Homo sapiens synaptogyrin 2 pseudogene (LOC138916) on chromosome 9 NG_001541 NG 001542 Homo sapiens similar to plasmolipin (LOC139061) pseudogene on chromoso NG 001543 Homo sapiens peptidyl prolyl isomerase H (cyclophilin H) pseudogene (LOC' NG_001544 Homo sapiens eukaryotic translation initiation factor 3, subunit 6 interacting p Homo sapiens tyrosine 3-monooxygenase/tryptophan 5-monooxygenase acti NG_001545 NG_001546 Homo sapiens similar to yeast Upf3, variant A pseudogene (LOC147150) on NG_001547 Homo sapiens lectin, galactoside-binding, soluble, 9 (galectin 9) pseudogene NG 001548 Homo sapiens similar to yeast Upf3, variant A pseudogene (LOC147226) on NG 001549 Homo sapiens son-pseudogene (LOC148300) on chromosome 1 NG_001550 Homo sapiens u2 small nuclear ribonucleoprotein A' pseudogene (LOC1504) NG_001551 Homo sapiens u2 small nuclear ribonucleoprotein polypeptide A' pseudogeni NG 001552 Homo sapiens RAB6C, member RAS oncogene family pseudogene (LOC150 NG 001553 Homo sapiens tyrosine 3-monooxygenase/tryptophan 5-monooxygenase acti NG_001554 Homo sapiens RAB6C, member RAS oncogene family pseudogene (LOC150 NG_001555 Homo sapiens peptidylprolyl isomerase (cyclophilin)-like 1 pseudogene 1 (PF Homo sapiens protease (prosome, macropain) 26S subunit, ATPase, 1 pseu NG 001556 NG 001557 Homo sapiens similar to ART-4 protein (LOC152594) pseudogene on chromi NG_001558 Homo sapiens signal recognition particle 72kD pseudogene (LOC153932) or NG_001559 Homo sapiens protein phosphatase 2, regulatory subunit B (B56), epsilon isc NG 001560 Homo sapiens cell division cycle 20 pseudogene (LOC157956) on chromoso NG 001561 Homo sapiens tyrosine 3-monooxygenase/tryptophan 5-monooxygenase acti Homo sapiens tyrosine 3-monooxygenase/tryptophan 5-monooxygenase acti NG_001562 NG 001563 Homo sapiens protein kinase C, iota pseudogene (LOC158948) on chromoso NG 001564 Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 6 ps NG 001566 Homo sapiens peptidylprolyl isomerase A (cyclophilin A)-like (PPIAL) pseudc NG 001567 Homo sapiens ribonuclease H1 pseudogene 3 (RNASEH1P3) on chromoson Homo sapiens nitric oxide synthase 2A (inducible, hepatocytes) pseudogene NG 001568 NG 001569 Homo sapiens similar to high mobility group protein-R (LOC201958) pseudoc NG 001571 Homo sapiens ribosomal protein L36a pseudogene (dJ507l15.1) on chromos Homo sapiens cyclin-dependent kinase 7 pseudogene (CDK7PS) on chromo NG_001572 NG_001573 Homo sapiens TAF13 RNA polymerase II, TATA box binding protein (TBP)-a NG_001574 Homo sapiens TBP-associated factor 9-like pseudogene (LOC246135) on ch NG_001576 Homo sapiens deltaNEMO (deltaNEMO) pseudogene on chromosome X NG_001577 Homo sapiens CDC28 protein kinase regulatory subunit 1A (CKS1A) pseudo NG_001578 Homo sapiens CDC28 protein kinase regulatory subunit 1B pseudogene 2 (C NG_001579 Homo sapiens CDC28 protein kinase regulatory subunit 1B pseudogene 3 (C NG_001580 Homo sapiens YWHAQ pseudogene 2 (YWHAQP2) on chromosome 22 NG_001581 Homo sapiens transcription elongation factor B (SIII), polypeptide 2 (18kD, el NG 001582 Homo sapiens transcription elongation factor B (SIII), polypeptide 2 (18kD, el NG 001583 Homo sapiens ubiquitin carrier protein E2-EPF pseudogene (LOC246719) or Homo sapiens dynein, cytoplasmic, light polypeptide pseudogene (LOC2467 NG 001584 Homo sapiens ATP synthase, H+ transporting, mitochondrial F0 complex, su NG_001585 Homo sapiens peptidyl prolyl isomerase H (cyclophilin H) pseudogene 1 (PP NG 001586 Homo sapiens tyrosine 3-monooxygenase/tryptophan 5-monooxygenase acti NG 001587 Homo sapiens homolog of C. elegans smu-1 pseudogene (LOC246784) on c NG 001588 Homo sapiens PTD004 pseudogene (LOC246785) on chromosome 22 NG 001589 NG 001590 Homo sapiens signal recognition particle 68kD pseudogene (LOC252840) or Homo sapiens signal recognition particle 68kD pseudogene (LOC252841) or NG_001591 Homo sapiens karyopherin (importin) beta 2 pseudogene (LOC252968) on cl NG 001592 Homo sapiens olfactory receptor, family 1, subfamily E, member 3 pseudoge NG 002151 NG 002153 Homo sapiens olfactory receptor, family 1, subfamily P, member 1 pseudoge Homo sapiens olfactory receptor, family 8, subfamily C, member 1 pseudoge NG 002154 NG 002156 Homo sapiens olfactory receptor, family 8, subfamily B, member 1 pseudoge Homo sapiens olfactory receptor, family 7, subfamily E, member 41 pseudog NG 002158

Homo sapiens olfactory receptor, family 7, subfamily E, member 4 pseudoge NG 002162 Homo sapiens olfactory receptor, family 7, subfamily E, member 87 pseudog NG 002164 NG 002166 Homo sapiens olfactory receptor, family 7, subfamily E, member 2 pseudoge NG 002168 Homo sapiens olfactory receptor, family 7, subfamily E, member 15 pseudog NG 002170 Homo sapiens olfactory receptor, family 7, subfamily A, member 3 pseudoge Homo sapiens olfactory receptor, family 5, subfamily D, member 3 pseudoge NG 002172 Homo sapiens olfactory receptor, family 4, subfamily A, member 1 pseudoge NG 002173 NG_002175 Homo sapiens olfactory receptor, family 7, subfamily E, member 14 pseudog Homo sapiens olfactory receptor, family 7, subfamily E, member 13 pseudog NG 002177 Homo sapiens olfactory receptor, family 7, subfamily E, member 12 pseudog NG_002179 NG_002181 Homo sapiens olfactory receptor, family 7, subfamily E, member 11 pseudog Homo sapiens olfactory receptor, family 7, subfamily E, member 10 pseudog NG 002183 Homo sapiens olfactory receptor, family 4, subfamily C, member 1 pseudoge NG 002184 Homo sapiens olfactory receptor, family 4, subfamily H, member 8 pseudoge NG 002185 NG_002189 Homo sapiens olfactory receptor, family 7, subfamily E, member 16 pseudog NG_002191 Homo sapiens olfactory receptor, family 7, subfamily E, member 43 pseudog NG_002195 Homo sapiens olfactory receptor, family 9, subfamily A, member 1, pseudoge Homo sapiens olfactory receptor, family 12, subfamily D, member 1 pseudog NG 002196 Homo sapiens olfactory receptor, family 51, subfamily A, member 1 pseudog NG 002199 Homo sapiens olfactory receptor, family 10, subfamily G, member 1 pseudog NG 002200 Homo sapiens olfactory receptor, family 10, subfamily B, member 1 pseudog NG 002201 Homo sapiens olfactory receptor, family 8, subfamily B, member 7 pseudoge NG 002202 Homo sapiens olfactory receptor, family 8, subfamily B, member 6 pseudoge NG 002203 Homo sapiens olfactory receptor, family 8, subfamily B, member 5 pseudoge NG 002204 Homo sapiens olfactory receptor, family 7, subfamily H, member 1 pseudoge NG_002205 Homo sapiens olfactory receptor, family 7, subfamily E, member 8 pseudoge NG_002207 Homo sapiens olfactory receptor, family 7, subfamily E, member 33 pseudog NG_002211 Homo sapiens olfactory receptor, family 7, subfamily D, member 1 pseudoge NG 002212 Homo sapiens olfactory receptor, family 7, subfamily A, member 11 pseudog NG 002215 Homo sapiens olfactory receptor, family 2, subfamily N, member 1 pseudoge NG 002216 Homo sapiens vomeronasal 1 receptor 7 pseudogene (VN1R7P) on chromos NG 002218 NG_002219 Homo sapiens olfactory receptor, family 56, subfamily A, member 5 (OR56At NG 002220 Homo sapiens olfactory receptor, family 52, subfamily X, member 1 pseudog Homo sapiens olfactory receptor, family 7, subfamily E, member 94 pseudog NG 002221 NG 002225 Homo sapiens olfactory receptor, family 7, subfamily E, member 93 pseudog NG_002229 Homo sapiens olfactory receptor, family 4, subfamily C, member 7 pseudoge NG_002232 Homo sapiens olfactory receptor, family 51, subfamily P, member 1 pseudog Homo sapiens olfactory receptor, family 9, subfamily L, member 1 pseudoge NG_002233 Homo sapiens olfactory receptor, family 52, subfamily J, member 1 pseudogo NG 002234 Homo sapiens olfactory receptor, family 4, subfamily K, member 7 pseudoge NG 002235 Homo sapiens olfactory receptor, family 4, subfamily P, member 1 pseudoge NG 002236 Homo sapiens olfactory receptor, family 1, subfamily AA, member 1 pseudog NG 002238 NG_002239 Homo sapiens olfactory receptor, family 2, subfamily AD, member 1 pseudog Homo sapiens olfactory receptor, family 4, subfamily K, member 6 pseudoge NG 002240 NG 002241 Homo sapiens olfactory receptor, family 7, subfamily E, member 91 pseudog Homo sapiens olfactory receptor, family 4, subfamily K, member 4 pseudoge NG 002242 Homo sapiens olfactory receptor, family 4, subfamily N, member 1 pseudoge NG 002243 Homo sapiens olfactory receptor, family 13, subfamily C, member 1 pseudog NG 002246 Homo sapiens olfactory receptor, family 4, subfamily C, member 5 (OR4C5) NG 002247 Homo sapiens olfactory receptor, family 4, subfamily C, member 2 pseudoge NG 002250 Homo sapiens olfactory receptor, family 7, subfamily E, member 83 pseudog NG_002251 Homo sapiens olfactory receptor, family 51, subfamily J, member 1 (OR51J1 NG 002252 Homo sapiens olfactory receptor, family 5, subfamily BD, member 1 pseudog NG 002253 Homo sapiens olfactory receptor, family 10, subfamily D, member 5 pseudog NG 002254 Homo sapiens olfactory receptor, family 10, subfamily G, member 6 (OR10G NG 002255 Homo sapiens olfactory receptor, family 7, subfamily E, member 97 pseudog NG 002256

NG 002160 Homo sapiens olfactory receptor, family 7, subfamily E, member 5 pseudoge

NG 002257 Homo sapiens olfactory receptor, family 2, subfamily AF, member 1 pseudog NG 002258 Homo sapiens olfactory receptor, family 7, subfamily L, member 1 pseudoger NG 002259 Homo sapiens olfactory receptor, family 10, subfamily R, member 1 pseudog NG 002260 Homo sapiens olfactory receptor, family 10, subfamily T, member 1 pseudog-NG 002261 Homo sapiens olfactory receptor, family 10, subfamily G, member 5 pseudog NG_002262 Homo sapiens olfactory receptor, family 52, subfamily S, member 1 pseudog NG 002263 Homo sapiens olfactory receptor, family 51, subfamily A, member 5 pseudog NG_002264 Homo sapiens olfactory receptor, family 4, subfamily C, member 10 pseudog NG_002265 Homo sapiens olfactory receptor, family 4, subfamily R, member 1 pseudoge NG_002266 Homo sapiens olfactory receptor, family 52, subfamily J, member 2 pseudogo NG 002267 Homo sapiens olfactory receptor, family 4, subfamily C, member 9 pseudoge NG_002268 Homo sapiens olfactory receptor, family 51, subfamily A, member 3 pseudog NG_002269 Homo sapiens olfactory receptor, family 52, subfamily E, member 3 pseudog NG_002270 Homo sapiens olfactory receptor, family 4, subfamily V, member 1 pseudoge NG_002271 Homo sapiens olfactory receptor, family 7, subfamily E, member 90 pseudog NG 002272 Homo sapiens olfactory receptor, family 7, subfamily E, member 89 pseudog NG_002273 Homo sapiens olfactory receptor, family 2, subfamily AL, member 1 pseudog NG_002274 Homo sapiens olfactory receptor, family 6, subfamily J, member 1 (OR6J1) p NG 002275 Homo sapiens olfactory receptor, family 4, subfamily C, member 4 pseudoge NG 002277 Homo sapiens olfactory receptor, family 5, subfamily D, member 2 pseudoge NG 002278 Homo sapiens olfactory receptor, family 7, subfamily A, member 18 pseudog NG 002279 Homo sapiens olfactory receptor, family 9, subfamily 1, member 2 pseudoger NG 002281 Homo sapiens olfactory receptor, family 5, subfamily M, member 13 pseudog Homo sapiens olfactory receptor, family 6, subfamily L, member 1 pseudoger NG 002282 NG_002284 Homo sapiens ubiquitin B pseudogene 1 (UBBP1) on chromosome 2 NG 002285 Homo sapiens ubiquitin B pseudogene 4 (UBBP4) on chromosome 17 NG 002286 Homo sapiens ubiquitin B pseudogene 3 (UBBP3) on chromosome 2 NG 002287 Homo sapiens ubiquitin B pseudogene 2 (UBBP2) on chromosome 1 NG 002288 Homo sapiens suppressor of bimD6 homolog pseudogene (LOC122145) on NG 002289 Homo sapiens serine hydroxymethyltransferase 1 (soluble) pseudogene (SH NG 002290 Homo sapiens DKFZP434J193-like pseudogene (LOC259308) on chromoso NG 002291 Homo sapiens splicing factor 3b, subunit 4, 49kD pseudogene (LOC260329) NG_002298 Homo sapiens olfactory receptor, family 1, subfamily D, member 3 pseudoge NG_002299 Homo sapiens olfactory receptor, family 5, subfamily G, member 1 pseudoge NG_002302 Homo sapiens olfactory receptor, family 1, subfamily R, member 1 pseudoge NG_002305 Homo sapiens olfactory receptor, family 5, subfamily B, member 1 pseudoge NG_002306 Homo sapiens olfactory receptor, family 5, subfamily B, member 10 pseudog NG 002307 Homo sapiens olfactory receptor, family 4, subfamily H, member 6 pseudoge NG_002311 Homo sapiens olfactory receptor, family 7, subfamily A, member 15 pseudog Homo sapiens olfactory receptor, family 7, subfamily E, member 26 pseudog NG 002315 Homo sapiens olfactory receptor, family 7, subfamily E, member 53 pseudog NG 002316 NG 002317 Homo sapiens olfactory receptor, family 7, subfamily E, member 62 pseudog NG 002319 Homo sapiens olfactory receptor, family 2, subfamily H, member 5 pseudoge NG_002320 Homo sapiens NADH dehydrogenase 2 pseudogene 2 (MTND2P2) on chroπ NG_002321 Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 6 psei NG 002322 Homo sapiens olfactory receptor, family 8, subfamily B, member 9 pseudoge NG 002323 Homo sapiens high mobility group AT-hook 1-like 3 (HMGA1L3) pseudogene NG 002324 Homo sapiens high mobility group AT-hook 1-like 1 (HMGA1L1) pseudogene Homo sapiens COP9 pseudogene (bA345E19.2) on chromosome X NG 002325 Homo sapiens dihydrolipoamide S-succinyltransferase pseudogene (E2 com NG 002326 Homo sapiens HSA12cenp11 beta-tubulin 4Q (TUBB4Q) pseudogene (LOC' NG 002327 Homo sapiens polypyrimidine tract binding protein 1 pseudogene (PTBP1P) NG_002328 Homo sapiens protease, serine, 29 pseudogene (PRSS29P) on chromosome NG 002329 NG 002331 Homo sapiens apolipoprotein B mRNA editing enzyme, catalytic polypeptide-NG 002332 Homo sapiens fascin pseudogene (LOC145989) on chromosome 15 NG 002333 Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 7 psei Homo sapiens HSA16g24 beta-tubulin 4Q pseudogene (LOC197331) on chr NG 002334

NG 002335 Homo sapiens HSA1q43-44 beta-tubulin 4Q (TUBB4Q) pseudogene (LOC20 NG 002336 Homo sapiens tubulin, beta polypeptide pseudogene 5 (TUBBP5) on chromo NG 002337 Homo sapiens olfactory receptor, family 5, subfamily AK, member 4 pseudog NG 002338 Homo sapiens HSA1g42.3 beta-tubulin 4Q pseudogene (LOC255208) on chi NG 002339 Homo sapiens HSA18p11 beta-tubulin 4Q pseudogene (LOC260334) on chr NG 002340 Homo sapiens ELF2P2 pseudogene (ELF2P2) NG 002341 Homo sapiens ELF2P3 pseudogene (AF256221) on chromosome 9 NG 002342 Homo sapiens zinc finger protein Np97 pseudogene (LOC260337) on chrom-Homo sapiens HSA12cenq11 beta-tubulin 4Q (TUBB4Q) pseudogene (LOC2 NG_002343 Homo sapiens sorting nexin 6 pseudogene (LOC126506) on chromosome 15 NG_002348 NG_002349 Homo sapiens eukaryotic translation elongation factor 1 alpha-like 11 (EEF1, Homo sapiens eukaryotic translation elongation factor 1 alpha 1 pseudogene NG 002350 Homo sapiens sorting nexin 7 pseudogene (LOC203930) on chromosome 11 NG_002351 Homo sapiens actin related protein 2/3 complex subunit 1A pseudogene (LO NG_002352 NG 002353 Homo sapiens eukarvotic translation elongation factor 1 alpha 1 pseudogene NG_002354 Homo sapiens actin related protein 2/3 complex subunit 1A pseudogene (LO Homo sapiens actin related protein 2/3 complex subunit 1A pseudogene (LO NG_002355 NG 002356 Homo sapiens olfactory receptor, family 7, subfamily E, member 19 pseudog NG 002357 Homo sapiens olfactory receptor, family 5, subfamily AH, member 1 pseudog NG 002360 Homo sapiens ribosomal protein S2 pseudogene (LOC125208) on chromosc NG 002361 Homo sapiens CGI-148 protein pseudogene (CGI-148P) on chromosome 16 Homo sapiens actin related protein 2/3 complex, subunit 3B, 21kDa (ARPC3 NG 002363 Homo sapiens tumor-associated calcium signal transducer 1 pseudogene (Li NG_002364 NG 002365 Homo sapiens nitric oxide synthase 2A (inducible, hepatocytes) pseudogene Homo sapiens NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 9, p NG 002366 Homo sapiens family with sequence similarity 12, member C pseudogene (F. NG_002367 Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 3 ps NG_002368 Homo sapiens Charot-Leyden crystal protein pseudogene 1 (CLCP1) on chrc NG_002369 Homo sapiens NS1-associated protein 1 pseudogene (LOC149844) on chror NG_002370 NG_002371 Homo sapiens dendritic cell protein pseudogene (LOC266683) on chromosol Homo sapiens embryonic ectoderm development pseudogene (LOC266694) NG 002372 NG 002373 Homo sapiens enhancer of zeste homolog 2 (Drosophila) pseudogene (LOC; NG 002374 Homo sapiens POM121 membrane glycoprotein-like 4 pseudogene (rat) (PO NG 002375 Homo sapiens oligophrenin 1 pseudogene 1 (OPHN1P1) on chromosome 22 NG_002376 Homo sapiens fatty acid binding protein 5, pseudogene 1 (FABP5P1) on chro NG_002378 Homo sapiens ash2 (absent, small, or homeotic)-like (Drosophila) pseudogei Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 6 ps NG 002379 NG 002380 Homo sapiens heat shock 70kDa protein 9B pseudogene (HSPA9BP) on chr Homo sapiens ubiquitin protein ligase E3A pseudogene 1 (UBE3AP1) on chr NG 002381 NG_002382 Homo sapiens melanoma antigen pseudogene, family A (psMAGEA) on chrc NG_002383 Homo sapiens keratin 19 pseudogene (LOC160313) on chromosome 12 Homo sapiens nucleoporin 50 pseudogene (NUP50P) on chromosome 14 NG 002384 Homo sapiens tropomyosin-like (LOC146253) pseudogene on chromosome NG 002385 NG 002387 Homo sapiens proteasome 26S non-ATPase subunit 2 pseudogene (LOC26) NG 002388 Homo sapiens nucleoporin 50kDa pseudogene (LOC266785) on chromosom NG 002389 Homo sapiens nucleoporin 50 kDa pseudogene (LOC266786) on chromosor NG 002392 Homo sapiens major histocompatibility complex, class II, DR52 haplotype (D Homo sapiens adenylate kinase 2 pseudogene (AK2B) on chromosome 1 NG 002393 Homo sapiens calcium-binding tyrosine phosphorylation-regulated protein ps NG 002394 Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, NG 002395 Homo sapiens major histocompatibility complex, class I, BC (HLA-BC) on chi NG 002397 Homo sapiens major histocompatibility complex, class I, GHKAJ (HLA-GHKA NG_002398 Homo sapiens transcription elongation factor B (SIII), polypeptide 1 pseudog NG_002399 Homo sapiens piggyBac transposable element derived 3 pseudogene 1 (PGI NG_002400 Homo sapiens piggyBac transposable element derived 3 pseudogene 2 (PGI NG 002401 Homo sapiens piggyBac transposable element derived 3 pseudogene 3 (PGI NG 002402 NG 002403 Homo sapiens piggyBac transposable element derived 3 pseudogene 4 (PGI

Homo sapiens ribosomal protein S9 pseudogene 2 (RPS9P2) on chromosom NG 002404 Homo sapiens RNA, U12 small nuclear pseudogene (RNU12P) on chromoso NG 002405 Homo sapiens olfactory receptor, family 5, subfamily G, member 3 pseudoge NG 002406 Homo sapiens olfactory receptor, family 13, subfamily C, member 7 pseudog NG 002408 Homo sapiens olfactory receptor, family 5, subfamily AX, member 1 (OR5AX NG 002409 Homo sapiens musashi 1 pseudogene (LOC268276) on chromosome 11 NG 002410 Homo sapiens suppressor of cytokine signaling 2 pseudogene 1 (SOCS2P1) NG 002411 Homo sapiens proteasome 26S non-ATPase subunit 7 pseudogene (LOC28I NG 002412 Homo sapiens RNA binding motif protein 8B pseudogene (RBM8B) on chron NG 002415 Homo sapiens mitochondrial ribosomal protein L11 pseudogene (MRPL11P2 NG 002416 Homo sapiens proteasome 26S non-ATPase subunit 10 pseudogene (LOC2) NG_002417 Homo sapiens similar to Homeobox protein Meis3 (Meis1-related protein 2) (NG_002418 Homo sapiens eukarvotic translation initiation factor 1A pseudogene 1 (EIF1) NG 002419 NG 002423 Homo sapiens CD8 antigen, beta polypeptide 2, pseudogene (p37) (CD8B2) NG 002425 Homo sapiens RNA, 7SL, cytoplasmic, pseudogene 1 (RN7SLP1) Homo sapiens RNA, 7SL, cytoplasmic, pseudogene 2 (RN7SLP2) on chromo NG 002426 Homo sapiens RNA, 7SL, cytoplasmic, pseudogene 3 (RN7SLP3) NG 002427 Homo sapiens RNA, 7SL, cytoplasmic, pseudogene 4 (RN7SLP4) on chromo NG 002428 Homo sapiens RNA, 7SL, cytoplasmic, pseudogene 5 (RN7SLP5) on chromo NG 002429 Homo sapiens mitochondrial ribosomal protein L48 pseudogene 1 (MRPL48I NG_002430 Homo sapiens nuclear autoantigenic sperm protein pseudogene 1 (NASPP1) NG 002431 Homo sapiens major histocompatibility complex, class II, DR51 haplotype (D NG 002432 Homo sapiens major histocompatibility complex, class II, DR53 haplotype (D NG 002433 Homo sapiens pre-B-cell leukemia transcription factor pseudogene 1 (PBXP NG_002434 Homo sapiens cytochrome b-5 pseudogene 3 (CYB5P3) on chromosome 14 NG_002437 Homo sapiens LEFTY family pseudogene (LEFTY3) on chromosome 1 NG_002438 Homo sapiens TGFB-induced factor (TALE family homeobox) pseudogene (I NG 002440 NG 002448 Homo sapiens mitogen-activated protein kinase 6 pseudogene 2 (MAPK6PS NG 002449 Homo sapiens mitogen-activated protein kinase 6 pseudogene 6 (MAPK6PS NG 002450 Homo sapiens cytokine receptor-like factor 3 pseudogene (LOC285706) on c Homo sapiens mitogen-activated protein kinase 6 pseudogene 4 (MAPK6PS NG 002451 Homo sapiens mitogen-activated protein klnase 6 pseudogene 5 (MAPK6PS NG 002452 Homo sapiens mitogen-activated protein kinase 6 pseudogene 3 (MAPK6PS NG 002453 Homo sapiens mitogen-activated protein kinase 6 pseudogene 1 (MAPK6PS NG 002454 Homo sapiens ribosomal protein L32-like 2 (RPL32L2) pseudogene on chror NG 002456 Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1-li NG 002457 Homo sapiens actin, beta-like 1 (ACTBL1) pseudogene on chromosome 22 NG_002458 Homo sapiens vomeronasal 1 receptor 9 pseudogene (VN1R9P) on chromos NG 002459 Homo sapiens high-mobility group nucleosomal binding domain 2 pseudoger NG 002460 Homo sapiens ataxin 2 related protein pseudogene (LOC317727) on chromo NG 002461 NG_002462 Homo sapiens basic leucine zipper nuclear factor 2 pseudogene (BLZF2P) o NG_002463 Homo sapiens proteasome 26S non-ATPase subunit 12 pseudogene (LOC3 Homo sapiens steroidogenic acute regulator pseudogene 1 (STARP1) on chi NG_002464 Homo sapiens chromosome 14 open reading frame 55 (C14orf55) pseudoge NG 002465 Homo sapiens a disintegrin and metalloproteinase domain 21 pseudogene (/ NG 002467 Homo sapiens ribosomal protein L9 pseudogene (LOC254948) on chromoso NG 002468 Homo sapiens bromodomain containing 7 pseudogene (BRD7P) on chromos NG 002469 Homo sapiens basic transcription factor 3, pseudogene 2 (BTF3P2) on chror NG 002470 Homo sapiens ribosomal protein L9 pseudogene (LOC317771) on chromoso NG 002471 Homo sapiens CDC10 cell division cycle 10 homolog (S. cerevisiae) pseudog NG_002472 Homo sapiens cysteine and histidine-rich domain (CHORD)-containing 2 pse NG 002473 Homo saplens CCNDBP1 interactor pseudogene (CBPINP) on chromosome NG 002474 Homo sapiens CDC28 protein kinase regulatory subunit 1B pseudogene (CK NG_002475 Homo sapiens coilin pseudogene (COILP) on chromosome 14 NG 002476 Homo sapiens cytochrome c oxidase subunit Va pseudogene 2 (COX5AP2) NG 002477 Homo sapiens ras homolog gene family, member Q pseudogene (RHOQP) c NG 002478 Homo sapiens cytochrome c oxidase subunit VIIa polypeptide 3 pseudogene NG 002479

NG 002480 Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 18 pseudogene 1 (I NG 002481 Homo sapiens G protein-coupled receptor 57 (GPR57) pseudogene on chror Homo sapiens ribosomal protein L21 pseudogene 12 (RPL21P12) on chrome NG 002482 NG_002483 Homo sapiens peptidylprolyl isomerase A (cyclophilin A) pseudogene 4 (PPI) NG 002484 Homo sapiens peptidylprolyl isomerase A (cyclophilin A) pseudogene 5 (PPI) NG 002485 Homo sapiens Friedreich ataxia pseudogene (FRDAP) on chromosome 14 Homo sapiens laminin receptor 1 pseudogene 4 (LAMR1P4) on chromosome NG_002486 NG_002487 Homo sapiens ribosomal protein L21 pseudogene 7 (RPL21P7) on chromosc NG_002488 Homo sapiens ribosomal protein L21 pseudogene 11 (RPL21P11) on chromo NG_002489 Homo sapiens laminin receptor 1 pseudogene 3 (LAMR1P3) on chromosome NG 002490 Homo sapiens ubiquitin-conjugating enzyme E2L 7 pseudogene (UBE2L7) o NG_002491 Homo sapiens ribosomal protein L21 pseudogene 9 (RPL21P9) on chromosomal NG 002492 Homo sapiens Rho GTPase activating protein 16 pseudogene (ARHGAP16F NG_002493 Homo sapiens DnaJ (Hsp40) homolog, subfamily C, member 8 pseudogene NG 002494 Homo sapiens eukaryotic translation elongation factor 1 alpha 1 pseudogene NG_002495 Homo sapiens endosulfine alpha pseudogene 2 (ENSAP2) on chromosome NG_002496 Homo sapiens eukaryotic translation initiation factor 2, subunit 2 beta, pseud NG_002497 Homo sapiens ATPase, H+ transporting, lysosomal 13kDa, V1 subunit G pse NG 002498 Homo sapiens eukaryotic translation initiation factor 3, subunit 6 interacting p NG 002499 Homo sapiens eukaryotic translation initiation factor 4B pseudogene (EIF4BF NG 002500 Homo sapiens ATP synthase, H+ transporting, mitochondrial F0 complex, su NG_002501 Homo sapiens tyrosine 3-monooxygenase/tryptophan 5-monooxygenase acti NG 002502 Homo saplens tyrosine 3-monooxygenase/tryptophan 5-monooxygenase acti NG 002503 Homo sapiens uracil-DNA glycosylase pseudogene 3 (UNGP3) on chromosc NG_002504 Homo sapiens zinc finger protein 405 pseudogene (ZNF405P) on chromosor NG 002505 Homo sapiens asparaginyl-tRNA synthetase pseudogene (NARSP) on chron NG 002506 Homo sapiens peptidylprolyl isomerase A (cyclophilin A) pseudogene 6 (PPI) NG 002507 Homo sapiens laminin receptor 1 pseudogene 5 (LAMR1P5) on chromosome NG 002508 Homo sapiens high-mobility group box 1 pseudogene (HMGB1P) on chromo: NG 002509 Homo sapiens high-mobility group nucleosome binding domain 1 pseudogen NG 002510 Homo sapiens high-mobility group nucleosomal binding domain 2 pseudoger NG 002511 Homo sapiens heterogeneous nuclear ribonucleoprotein C pseudogene (HNI NG_002512 Homo sapiens heterogeneous nuclear ribonucleoprotein U pseudogene (HNI NG_002513 Homo sapiens ribosomal protein L10a pseudogene 1 (RPL10AP1) on chrom-NG_002514 Homo sapiens ATP synthase, H+ transporting, mitochondrial F0 complex, su NG_002515 Homo sapiens ATP synthase, H+ transporting, mitochondrial F0 complex, su NG_002516 Homo sapiens BCL2/adenovirus E1B 19kDa interacting protein 3 pseudogen NG 002517 Homo sapiens glycine C-acetyltransferase pseudogene (GCATP) on chromo NG 002518 Homo sapiens ribosomal protein L12 pseudogene 5 (RPL12P5) on chromosomal pseudogene 5 (RPL12 NG 002519 Homo sapiens ribosomal protein L21 pseudogene 10 (RPL21P10) on chroma NG_002520 Homo sapiens ribosomal protein L21 pseudogene 13 (RPL21P13) on chromo Homo sapiens ribosomal protein L21 pseudogene 8 (RPL21P8) on chromosomal NG 002521 NG 002522 Homo sapiens ribosomal protein S2 pseudogene 4 (RPS2P4) on chromosom NG 002523 Homo sapiens ribosomal protein S29 pseudogene 1 (RPS29P1) on chromos NG_002524 Homo sapiens ubiquitin A-52 residue ribosomal protein fusion product 1 pset NG 002525 Homo sapiens ribosomal protein L24 pseudogene 3 (RPL24P3) on chromosomal pseudogene 3 (RPL24P3) on chrom NG 002526 Homo sapiens ribosomal protein, large, P1 pseudogene 1 (RPLP1P1) on chr NG 002527 Homo sapiens ribosomal protein L26 pseudogene 4 (RPL26P4) on chromosomal pseudogene 4 (RPL26P4) on chrom NG 002528 Homo sapiens ubiquitin-conjugating enzyme E2C pseudogene 1 (UBE2CP1) Homo sapiens tubulin, beta polypeptide pseudogene 3 (TUBBP3) on chromo NG 002529 NG 002530 Homo sapiens serine/threonine kinase 16 pseudogene (STK16P) on chromo NG 002531 Homo sapiens abl-interactor 1 pseudogene (ABI1P) on chromosome 14 NG 002532 Homo sapiens spermidine synthase pseudogene 2 (SRMP2) on chromosome NG 002533 Homo sapiens small nuclear ribonucleoprotein polypeptide G pseudogene (S NG 002534 Homo sapiens solute carrier family 20 (phosphate transporter), member 1 ps NG 002535 Homo sapiens ribosomal protein L12 pseudogene 7 (RPL12P7) on chromosomal NG 002537 Homo sapiens SET pseudogene 2 (SETP2) on chromosome 14

NG 002538	Homo sapiens ribosomal protein L13a pseudogene 2 (RPL13AP2) on chrom-
NG_002539	Homo sapiens ribosomal protein L15 pseudogene 2 (RPL15P2) on chromosomal
NG 002540	Homo sapiens ribosomal protein L17 pseudogene 3 (RPL17P3) on chromosomal
NG 002541	Homo sapiens ribosomal protein L17 pseudogene 4 (RPL17P4) on chromosomal
NG 002542	Homo sapiens ribosomal protein L18a pseudogene 1 (RPL18AP1) on chrom-
NG 002543	Homo sapiens ribosomal protein L18 pseudogene 1 (RPL18P1) on chromosomal
NG 002544	Homo sapiens ribosomal protein L22 pseudogene 2 (RPL22P2) on chromosomal
NG 002545	Homo sapiens ribosomal protein L23a pseudogene 10 (RPL23AP10) on chrc
NG 002546	Homo sapiens ribosomal protein L23a pseudogene 11 (RPL23AP11) on chrc
NG 002547	Homo sapiens eukaryotic translation initiation factor 4E binding protein 1 pse
NG 002548	Homo sapiens heat shock factor binding protein 1 pseudogene 1 (HSBP1P1)
NG_002549	Homo sapiens ribosomal protein L26 pseudogene 2 (RPL26P2) on chromosomal
NG 002550	Homo sapiens ribosomal protein L26 pseudogene 3 (RPL26P3) on chromosomal
NG 002551	Homo sapiens ribosomal protein L27 pseudogene 1 (RPL27P1) on chromosomal
NG_002552	Homo sapiens heat shock 10kDa protein 1 (chaperonin 10) pseudogene 2 (F
NG 002553	Homo sapiens ribosomal protein L36a pseudogene 2 (RPL36AP2) on chrom-
NG_002554	Homo sapiens NEK2 pseudogene (NEK2P) on chromosome 14
NG_002555	Homo sapiens ribosomal protein L36a pseudogene 3 (RPL36AP3) on chrom
NG_002556	Homo sapiens ribosomal protein L36a pseudogene 4 (RPL36AP4) on chrom
NG_002557	Homo sapiens molybdenum cofactor synthesis 3 pseudogene (MOCS3P) on
NG_002558	Homo sapiens ribosomal protein L39 pseudogene 2 (RPL39P2) on chromosomal
NG_002559	Homo sapiens ribosomal protein L3 pseudogene 4 (RPL3P4) on chromosom
NG_002560	Homo sapiens ribosomal protein L41 pseudogene 4 (RPL41P4) on chromosomal
NG_002561	Homo sapiens ribosomal protein L7a pseudogene 5 (RPL7AP5) on chromosi
NG_002562	Homo sapiens ribosomal protein L7a pseudogene 6 (RPL7AP6) on chromos
NG_002563	Homo sapiens ribosomal protein L9 pseudogene 6 (RPL9P6) on chromosom
NG_002564	Homo sapiens ribosomal protein S12 pseudogene 1 (RPS12P1) on chromos
NG_002565	Homo sapiens pituitary tumor-transforming 4 pseudogene (PTTG4P) on chro
NG_002566	Homo sapiens ribosomal protein S15a pseudogene 2 (RPS15AP2) on chrom
NG_002567	Homo sapiens ribosomal protein S15a pseudogene 3 (RPS15AP3) on chrom
NG_002568	Homo sapiens olfactory receptor, family 11, subfamily H, member 8 pseudog
NG_002570	Homo sapiens ribosomal protein S18 pseudogene 2 (RPS18P2) on chromos
NG_002571	Homo sapiens ribosomal protein S24 pseudogene 2 (RPS24P2) on chromos
NG_002572	Homo sapiens ribosomal protein S24 pseudogene 3 (RPS24P3) on chromos
NG_002573	Homo sapiens ribosomal protein S27a pseudogene 4 (RPS27AP4) on chrom
NG_002574	Homo sapiens ribosomal protein S8 pseudogene 1 (RPS8P1) on chromosom
NG_002575	Homo sapiens ribosomal protein S2 pseudogene 2 (RPS2P2) on chromosom
NG_002576	Homo sapiens ribosomal protein S2 pseudogene 3 (RPS2P3) on chromosom
NG_002577	Homo sapiens SSX1 pseudogene (psiSSX1) on chromosome X
NG_002578	Homo sapiens SSX4 pseudogene (psiSSX4) on chromosome X
NG_002579	Homo sapiens SSX5 pseudogene (psiSSX5) on chromosome X
NG_002580	Homo sapiens SSX3 pseudogene (psiSSX3) on chromosome X
NG_002581	Homo sapiens mago-nashi homolog, proliferation-associated pseudogene (C
NG_002582	
NG_002583	
NG_002584	
NG_002585	Homo sapiens SSX6 pseudogene (psiSSX6) on chromosome X
NG_002586	· · · · · · · · · · · · · · · · ·
NG_002587	
NG_002588	
NG_002589	
NG_002590	
NG_002591	
NG_002592	O (MTOO4DO) on observed
NG_002593	
NG_002594	
NG_002595	Homo adpicito traditi domydrogonado (dalquinono) i dom osta esta esta esta esta esta esta esta e

NG_002596 Homo sapiens nicotinamide nucleotide adenylyltransferase pseudogene (NIV NG_002597 Homo sapiens nucleophosmin 1 (nucleolar phosphoprotein B23, numatrin) p NG_002598 Homo sapiens 5',3'-nucleotidase, cytosolic pseudogene 1 (NT5CP1) on chro NG_002599 Homo sapiens 5',3'-nucleotidase, cytosolic pseudogene 2 (NT5CP2) on chro NG_002601 Homo sapiens UDP glycosyltransferase 1 family, polypeptide A cluster (UGT Homo sapiens nuclear transport factor 2 pseudogene 2 (NUTF2P2) on chron NG 002603 NG 002604 Homo sapiens prostatic binding protein pseudogene 1 (PBPP1) on chromoso Homo sapiens PCQAP pseudogene (PCQAPP) on chromosome 14 NG 002605 NG_002606 Homo sapiens PDZ and LIM domain 1 pseudogene (PDLIM1P) on chromoso NG 002607 Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 3 psei NG_002608 Homo sapiens prothymosin, alpha pseudogene 7 (PTMAP7) on chromosome NG 002609 Homo sapiens RAN binding protein 20 pseudogene (RANBP20P) on chromo NG_002610 Homo sapiens replication protein A2 pseudogene (RPA2P) on chromosome NG 002611 Homo sapiens interleukin 6 signal transducer (gp130, oncostatin M receptor) NG_002612 Homo sapiens family with sequence slmilarity 16, member A, Y-linked (FAM1 NG_002613 Homo sapiens family with sequence similarity 16, member B (FAM16B) pseu NG_002616 Homo sapiens histone 2, H3b (HIST2H3B) pseudogene on chromosome 1 NG 002617 Homo sapiens histone 2, H3a (HIST2H3A) pseudogene on chromosome 1 NG_002618 Homo sapiens histone 3, H2ba (HIST3H2BA) pseudogene on chromosome 1 Homo sapiens histone 2, H2bc (HIST2H2BC) pseudogene on chromosome 1 NG 002619 NG 002620 Homo sapiens histone 2, H2bd (HIST2H2BD) pseudogene on chromosome NG_002621 Homo sapiens histone 2, H2ba (HIST2H2BA) pseudogene on chromosome 1 Homo sapiens ELYS transcription factor-like protein TMBS62 pseudogene (L NG 002622 NG_002623 Homo sapiens ADP-ribosyltransferase (NAD+; poly (ADP-ribose) polymerase NG 002624 Homo sapiens adaptin, beta 1-like 2 (ADTB1L2) pseudogene on chromosom NG 002625 Homo sapiens adaptin, beta 1-like 1 (ADTB1L1) pseudogene on chromosom NG 002626 Homo sapiens proteasome (prosome, macropain) activator subunit 2 pseudo NG 002627 Homo sapiens proteasome 26S non-ATPase subunit 10 pseudogene (LOC3: NG_002628 Homo sapiens proteasome activator subunit 2 pseudogene (LOC338095) on NG_002629 Homo sapiens proteasome activator subunit 2 pseudogene (LOC338096) on NG 002630 Homo sapiens proteasome activator subunit 2 pseudogene (LOC338097) on NG 002631 Homo sapiens proteasome activator subunit 2 pseudogene (LOC338098) on NG 002632 Homo sapiens proteasome activator subunit 2 pseudogene (LOC338099) on NG 002633 Homo sapiens cytochrome c oxidase subunit Vb-like 7 (COX5BL7) pseudoge NG 002634 Homo sapiens serum amyloid A3 pseudogene (SAA3P) on chromosome 11 NG 002636 Homo sapiens YME1-like 2 (S. cerevisiae) (YME1L2) pseudogene on chromo NG 002637 Homo sapiens argininosuccinate lyase-like (ASLL) pseudogene on chromosc NG_002638 Homo sapiens colony stimulating factor 2 receptor, beta, 2 (CSF2RB2) pseur NG_002639 Homo sapiens inorganic pyrophosphatase pseudogene (LOC151842) on chr NG 002640 Homo sapiens mannan-binding lectin serine protease 1 pseudogene 1 (MAS NG 002641 Homo sapiens inorganic pyrophosphatase pseudogene (LOC285591) on chr NG 002642 Homo sapiens SULT1D pseudogene (SULT1D1P) on chromosome 4 NG 002645 Homo sapiens serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), NG_002646 Homo sapiens high-mobility group (nonhistone chromosomal) protein 17-like NG 002647 Homo sapiens vomeronasal 1 receptor 8 pseudogene (VN1R8P) on chromos NG_002648 Homo sapiens mitochondrial ribosomal protein S16 pseudogene (MRPS16P NG_002649 Homo sapiens mitochondrial ribosomal protein S16 pseudogene (MRPS16P: NG_002650 Homo sapiens mitochondrial ribosomal protein S24 pseudogene (MRPS24P Homo sapiens mitochondrial ribosomal protein S25 pseudogene (MRPS25P NG_002651 NG 002652 Homo sapiens histone 2, H2bb (HIST2H2BB) pseudogene on chromosome 1 NG 002653 Homo sapiens taste receptor, type 2, member 62 pseudogene (TAS2R62P) (NG 002655 Homo saplens ADP-ribosyltransferase (NAD+; poly (ADP-ribose) polymerase NG 002656 Homo sapiens ADP-ribosyltransferase (NAD+; poly (ADP-ribose) polymerase NG_002657 Homo sapiens DEAH (Asp-Glu-Ala-His) box polypeptide 9 pseudogene (DH) Homo sapiens eukaryotic translation initiation factor 4E-like 2 (EIF4EL2) psei NG 002658 NG 002659 Homo sapiens zinc finger pseudogene (BA393J16.4) on chromosome 10 NG 002660 Homo sapiens KRAB box zinc finger protein pseudogene (BA775A3.1) on ch

NG_002661	Homo sapiens hypothetical pseudogene bA291L22.4 (bA291L22.4) on chron
NG_002662	Homo sapiens mitochondrial ribosomal protein S5 pseudogene (MRPS5P3)
NG_002663	Homo sapiens mitochondrial ribosomal protein S21 pseudogene (MRPS21P
NG_002665	Homo sapiens mitochondrial ribosomal protein L42 pseudogene (MRPL42P1
NG 002666	Homo sapiens mitochondrial ribosomal protein S18C pseudogene (MRPS18
NG 002667	Homo sapiens keratin associated protein 13 pseudogene 1 (KRTAP13P1) or
NG_002668	Homo sapiens keratin associated protein 13 pseudogene 2 (KRTAP13P2) or
NG 002669	Homo sapiens keratin associated protein 8 pseudogene 1 (KRTAP8P1) on cl
NG 002670	Homo sapiens keratin associated protein 8 pseudogene 2 (KRTAP8P2) on cl
NG 002671	Homo sapiens keratin associated protein 19 pseudogene 3 (KRTAP19P3) or
NG 002672	Homo sapiens keratin associated protein 19 pseudogene 4 (KRTAP19P4) or
NG 002673	Homo sapiens keratin associated protein 21 pseudogene 1 (KRTAP21P1) or
NG 002674	Homo sapiens taste receptor, type 2, member 64 pseudogene (TAS2R64P)
NG_002674	Homo sapiens taste receptor, type 2, member 63 pseudogene (TAS2R63P)
_	Homo sapiens taste receptor, type 2, member 65 pseudogene (TAS2R65P)
NG_002676	
NG_002679	Homo sapiens potassium large conductance calcium-activated channel, subj
NG_002680	Homo sapiens survival motor neuron pseudogene (SMNP) on chromosome (
NG_002681	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily A (without
NG_002682	Homo sapiens MAPRE1P pseudogene (MAPRE1P) on chromosome 8
NG_002683	Homo sapiens steroid-5-beta-reductase, beta polypeptide pseudogene 1 (SF
NG_002684	Homo sapiens mitochondrial translational initiation factor 2 pseudogene 1 (M Homo sapiens histone 1, H2a, pseudogene 2 (HIST1H2APS2) on chromoso
NG_002685	
NG_002687	Homo sapiens suppressor of cytokine signaling 2 pseudogene 2 (SOCS2P2)
NG_002688	Homo sapiens keratin associated protein 19 pseudogene 1 (KRTAP19P1) or Homo sapiens keratin associated protein 19 pseudogene 2 (KRTAP19P2) or
NG_002689	
NG_002690	Homo sapiens Prader-Willi/Angelman syndrome region (PWSAS@) on chror
NG_002691	Homo sapiens ATP synthase, H+ transporting, mitochondrial F1 complex, ep
NG_002692	Homo sapiens protein phosphatase 1A pseudogene (LOC137012) on chrom- Homo sapiens phosphoribosyl pyrophosphate amidotransferase pseudogene
NG_002693	Homo sapiens mesoderm specific transcript homolog (mouse) pseudogene (
NG_002694	Homo sapiens eukaryotic translation initiation factor 2, subunit 2 beta, pseud
NG_002696 NG 002697	Homo sapiens ALEX2 pseudogene (LOC347674) on chromosome 7
NG_002698	Homo sapiens eukaryotic translation initiation factor 2 beta-like pseudogene
NG 002699	Homo sapiens G protein gamma 5-like subunit (GNG5ps) pseudogene on ch
NG 002700	Homo sapiens endothelin converting enzyme-like 1, pseudogene 1 (ECEL1P
NG_002701	Homo sapiens ECEL2 pseudogene 2 (ECEL2) on chromosome 2
NG 002702	Homo sapiens calgizzarin-like (LOC347701) pseudogene on chromosome 7
NG 002702	Homo sapiens mitochondrial ribosomal protein S36 pseudogene (MRPS36P
NG 002705	Homo sapiens mitochondrial ribosomal protein S36 pseudogene (MRPS36Pt
NG_002707	Homo sapiens mitochondrial ribosomal protein S36 pseudogene (MRPS36P;
NG 002709	Homo sapiens mitochondrial ribosomal protein S36 pseudogene (MRPS36P
NG 002711	Homo sapiens mitochondrial ribosomal protein S36 pseudogene (MRPS36P2
NG_002713	Homo sapiens mitochondrial ribosomal protein S36 pseudogene (MRPS36P6
NG_002716	Homo sapiens calmodulin 2 pseudogene 1 (CALM2P1) on chromosome 17
_	Homo sapiens nitric oxide synthase 2A pseudogene (LOC284193) on chrom
NG_002717 NG_002718	Homo sapiens galectin-9 pseudogene (LOC284194) on chromosome 17
NG_002710	Homo sapiens TL132 pseudogene (LOC347716) on chromosome 17
NG_002719 NG_002720	Homo sapiens signal recognition particle 68kD pseudogene (LOC347717) or
NG 002721	Homo sapiens karyopherin (importin) beta 2 pseudogene (LOC347719) on cl
NG_002721	Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase,
NG_002723 NG_002724	Homo sapiens actin, beta pseudogene 7 (ACTBP7) on chromosome 15
NG_002724 NG_002725	Homo sapiens eukaryotic translation initiation factor 5A pseudogene 3 (EIF5)
NG_002726	Homo sapiens SRY (sex determining region Y)-box 5 pseudogene (SOX5P)
NG_002727	Homo sapiens MHC class I polypeptide-related sequence C (MICC) pseudog
NG_002727	Homo sapiens heterogeneous nuclear ribonucleoprotein A1 pseudogene (hn
NG_002729	Homo sapiens HLA-75 pseudogene (HLA-75) on chromosome 6
NG_002723	Homo sapiens HLA-90 pseudogene (HLA-90) on chromosome 6
110_002.01	(=,

NG 002733 Homo sapiens MHC class I polypeptide-related sequence G pseudogene (MI NG 002735 Homo sapiens 3.8-1.5 pseudogene (3.8-1.5) on chromosome 6 NG 002736 Homo sapiens HLA complex P5 pseudogene 12 (HCP5P12) on chromosome Homo sapiens HLA complex group 2 pseudogene 8 (HCG2P8) on chromoso NG 002737 NG 002738 Homo sapiens ribosomal protein L7a pseudogene 7 (RPL7AP7) on chromosomal NG 002739 Homo sapiens HLA complex group 4 pseudogene 9 (HCG4P9) on chromoso NG_002740 Homo sapiens HLA complex P5 pseudogene 13 (HCP5P13) on chromosome NG 002741 Homo sapiens HLA complex group 4 pseudogene 10 (HCG4P10) on chromo Homo sapiens HLA complex P5 pseudogene 14 (HCP5P14) on chromosome NG_002742 Homo sapiens HLA complex group 9 pseudogene 5 (HCG9P5) on chromoso NG 002743 NG 002744 Homo sapiens HLA complex group 4 pseudogene 11 (HCG4P11) on chromo NG 002745 Homo sapiens HLA complex P5 pseudogene 15 (HCP5P15) on chromosome NG 002746 Homo sapiens eukaryotic translation initiation factor 5A pseudogene 2 (EIF5) NG 002747 Homo sapiens hydroxysteroid (17-beta) dehydrogenase pseudogene 1 (HSD NG 002748 Homo sapiens interleukin 6 signal transducer (gp130, oncostatin M receptor) Homo sapiens RAN, member RAS oncogene family pseudogene 1 (RANP1) NG_002749 Homo sapiens SMT3 suppressor of mif two 3 homolog 2 (yeast) pseudogene NG_002750 Homo sapiens NOD24 pseudogene (NOD24) on chromosome X NG 002752 Homo sapiens NOD13 pseudogene (NOD13) on chromosome X NG 002753 Homo sapiens NOD25 pseudogene (NOD25) on chromosome 12 NG 002754 NG_002761 Homo sapiens complement component 4 binding protein, alpha-like 2 (C4BP NG 002762 Homo sapiens crystallin, gamma E pseudogene 1 (CRYGEP1) on chromosoi Homo sapiens glutamate dehydrogenase pseudogene 3 (GLUDP3) on chron NG 002763 Homo sapiens interleukin 9 receptor pseudogene 4 (IL9RP4) on chromosom NG 002764 Homo sapiens prothymosin, alpha pseudogene 2 (gene sequence 32) (PTM/ NG 002765 NG 002766 Homo sapiens cytochrome P450, subfamily 51 pseudogene 2 (CYP51P2) on NG 002767 Homo sapiens glycoprotein, alpha-galactosyltransferase 1 pseudogene (GG Homo sapiens beta-lactoglobulin pseudogene (LOC138159) on chromosome NG 002768 Homo sapiens heat shock 70kDa protein 8 pseudogene (LOC158714) on chi NG 002769 NG 002770 Homo sapiens pseudogene of IGF-II mRNA-binding protein 3 (LOC346296) (Homo sapiens major histocompatibility complex, class I, L (HLA-L) pseudoge NG 002771 NG 002772 Homo saplens CAP, adenylate cyclase-associated protein, 2 (yeast) pseudos NG_002773 Homo sapiens coactosin-like 1 (Dictyostelium) pseudogene 2 (COTL1P2) on NG_002775 Homo sapiens keratin pseudogene (LOC147228) on chromosome 17 Homo sapiens keratin pseudogene (LOC284196) on chromosome 17 NG 002776 Homo sapiens keratin pseudogene (LOC339186) on chromosome 17 NG 002777 Homo sapiens keratin pseudogene (LOC339241) on chromosome 17 NG 002778 Homo sapiens keratin pseudogene (LOC339244) on chromosome 17 NG 002779 NG 002780 Homo sapiens keratin pseudogene (LOC339258) on chromosome 17 NG 002781 Homo sapiens keratin pseudogene (LOC353194) on chromosome 17 NG_002782 Homo sapiens keratin pseudogene (LOC353196) on chromosome 17 Homo sapiens interleukin 6 receptor pseudogene (LOC157916) on chromoso NG_002785 NG 002786 Homo sapiens makorin, ring finger protein, pseudogene 2 (MKRNP2) on chrc Homo sapiens chromosome 20 open reading frame 189 (C20orf189) pseudo NG 002787 Homo sapiens bitter taste receptor pseudogene 8 (PS8) on chromosome 12 NG 002788 Homo sapiens pseudogene of origin recognition complex, subunit 1-like (LOC NG 002790 Homo sapiens selenoprotein W, 1 pseudogene (SEPW1P) on chromosome NG 002791 Homo sapiens PC4 and SFRS1 interacting protein 1 pseudogene (PSIP1P) NG 002792 Homo sapiens pelota/integrin, alpha 1 region (PELO/ITGA1@) on chromosoi NG 002793 Homo sapiens polycystic kidney disease 1 (autosomal dominant) pseudogen NG 002795 NG 002796 Homo sapiens polycystic kidney disease 1 (autosomal dominant) pseudogen Homo sapiens polycystic kidney disease 1 (autosomal dominant) pseudogen NG 002797 Homo sapiens polycystic kidney disease 1 (autosomal dominant) pseudogen NG 002798 Homo sapiens polycystic kidney disease 1 (autosomal dominant) pseudogen NG 002799 Homo sapiens polycystic kidney disease 1 (autosomal dominant) pseudogen NG 002800 Homo sapiens 18S ribosomal RNA pseudogene (LOC359724) on chromosor NG 002801 NG 002802 Homo sapiens ADP-ribosyltransferase (NAD+; poly (ADP-ribose) polymerase

NG_002803	Homo sapiens apical protein-like (Xenopus laevis) pseudogene (APXLP) on
NG_002804	Homo sapiens arylsulfatase F pseudogene (ARSFP)
NG_002805	Homo sapiens calcium/calmodulin-dependent serine protein kinase (MAGUK
NG_002806	Homo sapiens adlican pseudogene (ADLICANP) on chromosome Y
NG_002807	Homo sapiens cofactor required for Sp1 transcriptional activation, subunit 2.
NG_002808	Homo sapiens C-terminal binding protein 2 pseudogene (LOC352905) on ch
NG_002809	Homo sapiens eukaryotic translation initiation factor 4A, isoform 1 pseudoge
NG_002810	Homo sapiens hypothetical protein FLJ10842 pseudogene (LOC359793) on
NG_002811	Homo sapiens glycogenin 2 pseudogene (GYG2P) on chromosome Y
NG_002812	Homo sapiens lung cancer candidate FUS1 pseudogene (LOC359794) on ch
NG_002813	Homo sapiens neurofilament, light polypeptide 68kDa pseudogene (LOC359
NG_002814	Homo sapiens G protein-coupled receptor 143 pseudogene (GPR143P) on c
NG_002815	Homo sapiens 60S ribosomal protein L26 pseudogene (LOC347593) on chrc
NG_002816	Homo sapiens splicing factor proline/glutamine rich (polypyrimidine tract binc
NG_002817	Homo sapiens solute carrier family 25 (mitochondrial carrier; ornithine transp
NG_002818	Homo sapiens Smcy homolog, Y chromosome (mouse) pseudogene (SMCY)
NG_002819	Homo sapiens transducin (beta)-like 1Y-linked pseudogene (TBL1YP) on chr
NG_002821	Homo sapiens ubiquitin-conjugating enzyme E2 variant 1 pseudogene (LOC:
NG_002822	Homo sapiens ubiquitin specific protease 12 pseudogene 1 (USP12P1) on cl
NG_002823	Homo sapiens ubiquitin specific protease 12 pseudogene 2 (USP12P2) on cl
NG_002824	Homo sapiens ubiquitin specific protease 12 pseudogene 3 (USP12P3) on cl
NG_002825	Homo sapiens voltage-dependent anion channel 1 pseudogene (LOC359800
NG_002826	Homo sapiens Ras-homolog enriched in brain pseudogene 1 (RHEBP1) on c
NG_002827	Homo sapiens mitochondrial ribosomal protein 63 pseudogene 1 (MRP63P1
NG_002828	Homo sapiens mitochondrial ribosomal protein S5 pseudogene (LOC133332
NG_002829	Homo sapiens mitochondrial ribosomal protein 63 pseudogene 6 (MRP63P6)
NG_002830	Homo sapiens mitochondrial ribosomal protein S33 pseudogene 1 (MRPS33
NG_002831	Homo sapiens mitochondrial ribosomal protein L36 pseudogene 1 (MRPL36)
NG_002832	Homo sapiens mitochondrial ribosomal protein S35 pseudogene 1 (MRPS35
NG_002833	Homo sapiens mitochondrial ribosomal protein S7 pseudogene 2 (MRPS7P2
NG_002834	Homo sapiens mitochondrial ribosomal protein L51 pseudogene 2 (MRPL51)
NG_002835	Homo sapiens mitochondrial ribosomal protein S18C pseudogene 6 (MRPS1
NG_002836	Homo sapiens mitochondrial ribosomal protein L49 pseudogene 2 (MRPL49)
NG_002837	Homo sapiens mitochondrial ribosomal protein 63 pseudogene 10 (MRP63P
NG_002838	Homo sapiens mitochondrial ribosomal protein L2 pseudogene 1 (MRPL2P1
NG_002839 NG_002840	Homo sapiens mitochondrial ribosomal protein S18C pseudogene 4 (MRPS1
NG_002841	Homo sapiens mitochondrial ribosomal protein S21 pseudogene 8 (MRPS21
NG_002842	Homo sapiens mitochondrial ribosomal protein L50 pseudogene 1 (MRPL50)
NG_002843	Homo sapiens mitochondrial ribosomal protein S31 pseudogene 1 (MRPS31
NG_002844	Homo sapiens mitochondrial ribosomal protein L51 pseudogene 1 (MRPL511 Homo sapiens mitochondrial ribosomal protein S23 pseudogene 1 (MRPS23
NG_002845	Homo sapiens mitochondrial ribosomal protein 63 pseudogene 1 (MRP63P2)
NG_002846	Homo sapiens mitochondrial ribosomal protein 63 pseudogene 3 (MRP63P3)
NG 002847	Homo sapiens mitochondrial ribosomal protein 63 pseudogene 7 (MRP63P7)
NG 002848	Homo sapiens mitochondrial ribosomal protein 63 pseudogene 8 (MRP63P8)
NG_002849	Homo sapiens mitochondrial ribosomal protein 63 pseudogene 9 (MRP63P9)
NG_002850	Homo sapiens mitochondrial ribosomal protein L11 pseudogene 3 (MRPL11)
NG_002851	Homo sapiens mitochondrial ribosomal protein L14 pseudogene 1 (MRPL14)
NG_002852	Homo sapiens mitochondrial ribosomal protein L15 pseudogene 1 (MRPL15)
NG_002853	Homo sapiens mitochondrial ribosomal protein L20 pseudogene 1 (MRPL20)
NG_002854	Homo sapiens mitochondrial ribosomal protein L22 pseudogene 1 (MRPL22)
NG_002855	Homo sapiens mitochondrial ribosomal protein L3 pseudogene 1 (MRPL3P1)
NG_002856	Homo sapiens mitochondrial ribosomal protein L30 pseudogene 1 (MRPL30)
NG_002857	Homo saplens mitochondrial ribosomal protein L32 pseudogene 1 (MRPL32)
NG_002858	Homo sapiens mitochondrial ribosomal protein L35 pseudogene 1 (MRPL35)
NG_002859	Homo sapiens mitochondrial ribosomal protein L35 pseudogene 2 (MRPL35)
NG_002860	Homo sapiens mitochondrial ribosomal protein L35 pseudogene 3 (MRPL35)
	•

NG 002861

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Homo sapiens mitochondrial ribosomal protein L35 pseudogene 4 (MRPL35)

NG 002862 Homo sapiens mitochondrial ribosomal protein L42 pseudogene 3 (MRPL42) NG 002863 Homo sapiens mitochondrial ribosomal protein L45 pseudogene 1 (MRPL45) NG 002864 Homo sapiens mitochondrial ribosomal protein L49 pseudogene 1 (MRPL49) Homo sapiens mitochondrial ribosomal protein L50 pseudogene 2 (MRPL50) NG 002865 NG 002866 Homo sapiens mitochondrial ribosomal protein L50 pseudogene 3 (MRPL50) Homo sapiens mitochondrial ribosomal protein L50 pseudogene 4 (MRPL50) NG 002867 NG 002868 Homo sapiens mitochondrial ribosomal protein L53 pseudogene 1 (MRPL53) Homo sapiens mitochondrial ribosomal protein S10 pseudogene 1 (MRPS10 NG_002869 NG_002870 Homo sapiens mitochondrial ribosomal protein S10 pseudogene 5 (MRPS10 Homo sapiens mitochondrial ribosomal protein S15 pseudogene 1 (MRPS15 NG_002871 NG_002872 Homo sapiens mitochondrial ribosomal protein S15 pseudogene 2 (MRPS15 NG_002873 Homo sapiens mitochondrial ribosomal protein S17 pseudogene 3 (MRPS17 NG 002874 Homo sapiens mitochondrial ribosomal protein S17 pseudogene 5 (MRPS17 Homo sapiens mitochondrial ribosomal protein S17 pseudogene 6 (MRPS17 NG 002875 NG_002876 Homo sapiens mitochondrial ribosomal protein S17 pseudogene 9 (MRPS17 NG_002877 Homo sapiens mitochondrial ribosomal protein S18A pseudogene 1 (MRPS1 NG_002878 Homo sapiens mitochondrial ribosomal protein S18B pseudogene 1 (MRPS1 NG_002879 Homo sapiens mitochondrial ribosomal protein S18B pseudogene 2 (MRPS1 Homo sapiens mitochondrial ribosomal protein S18C pseudogene 3 (MRPS1 NG 002880 Homo sapiens mitochondrial ribosomal protein S18C pseudogene 5 (MRPS1 NG 002881 Homo sapiens mitochondrial ribosomal protein S21 pseudogene 2 (MRPS21 NG 002882 NG 002883 Homo sapiens mitochondrial ribosomal protein S21 pseudogene 3 (MRPS21 Homo sapiens mitochondrial ribosomal protein S21 pseudogene 4 (MRPS21 NG 002884 Homo sapiens mitochondrial ribosomal protein S21 pseudogene 5 (MRPS21 NG 002885 NG 002886 Homo sapiens mitochondrial ribosomal protein S21 pseudogene 6 (MRPS21 Homo sapiens mitochondrial ribosomal protein S21 pseudogene 7 (MRPS21 NG 002887 Homo sapiens mitochondrial ribosomal protein S21 pseudogene 9 (MRPS21 NG_002888 NG 002889 Homo sapiens mitochondrial ribosomal protein S22 pseudogene 1 (MRPS22 Homo sapiens mitochondrial ribosomal protein S29 pseudogene 2 (MRPS29 NG 002890 NG 002891 Homo sapiens mitochondrial ribosomal protein S33 pseudogene 2 (MRPS33 NG 002892 Homo sapiens mitochondrial ribosomal protein S33 pseudogene 3 (MRPS33 Homo sapiens mitochondrial ribosomal protein S33 pseudogene 4 (MRPS33 NG 002893 Homo sapiens mitochondrial ribosomal protein S35 pseudogene 2 (MRPS35 NG 002894 Homo sapiens mitochondrial ribosomal protein S35 pseudogene 3 (MRPS35 NG_002895 NG_002896 Homo sapiens mitochondrial ribosomal protein S6 pseudogene 1 (MRPS6P1 Homo sapiens mitochondrial ribosomal protein S6 pseudogene 2 (MRPS6P2 NG 002897 Homo sapiens mitochondrial ribosomal protein S6 pseudogene 4 (MRPS6P4 NG 002898 NG_002899 Homo saplens mitochondrial ribosomal protein S7 pseudogene 1 (MRPS7P1 Homo sapiens mitochondrial ribosomal protein S5 pseudogene (MRPS5P4) NG_002900 Homo sapiens PCNA pseudogene pF2PCNA (LOC359805) on chromosome NG 002901 NG_002902 Homo sapiens PCNA pseudogene p1PCNA (LOC359806) on chromosome 4 NG 002903 Homo sapiens mitochondrial ribosomal protein S10 pseudogene (MRPS10P: NG_002904 Homo sapiens mitochondrial ribosomal protein S29 pseudogene 1 (MRPS29 Homo sapiens chloride channel, nucleotide-sensitive, 1B (CLNS1B) pseudog NG 002905 Homo sapiens VENT-like homeobox 2 pseudogene 4 (VENTX2P4) on chrom NG 002906 Homo sapiens mitochondrial ribosomal protein L42 pseudogene 2 (MRPL42I NG 002907 Homo sapiens mitochondrial ribosomal protein L42 pseudogene 4 (MRPL42) NG 002908 Homo sapiens VENT-like homeobox 2 pseudogene 2 (VENTX2P2) on chrom NG 002909 Homo sapiens mitochondrial ribosomal protein L10 pseudogene (LOC34895) NG 002910 Homo sapiens VENT-like homeobox 2 pseudogene 3 (VENTX2P3) on chrom NG 002911 Homo sapiens mitochondrial ribosomal protein L30 pseudogene 2 (MRPL30) NG_002912 Homo sapiens mitochondrial ribosomal protein L39 pseudogene (LOC35981: NG 002913 Homo sapiens mitochondrial ribosomal protein L42 pseudogene 5 (MRPL42) NG 002914 NG 002915 Homo sapiens peroxiredoxin 2 pseudogene 1 (PRDX2P1) on chromosome 1 NG 002916 Homo sapiens MHC class I polypeptide-related sequence E (MICE) pseudog Homo sapiens PAI-1 mRNA-binding protein pseudogene (LOC359996) on ch NG 002917

NG_002918	Homo sapiens ATP synthase, H+ transporting, mitochondrial F0 complex, su
NG 002919	Homo sapiens CHRNA7 (cholinergic receptor, nicotinic, alpha polypeptide 7,
NG 002920	Homo sapiens CHRNA7 (cholinergic receptor, nicotinic, alpha polypeptide 7,
NG 002921	Homo sapiens BCL6 co-repressor pseudogene (LOC360000) on chromosom
NG 002922	Homo sapiens interferon alpha-L pseudogene (G13P1) on chromosome 9
NG_002923	Homo sapions interición alpha-L pseudogene (G13P1) on enromosome 9
NG 002924	
NG 002926	and the second of the second o
NG_002920	President of a contract of population for the fill of the fill of the contract of the
NG_002927 NG_002928	Homo sapiens cytochrome c, somatic pseudogene (LOC360009) on chromo:
_	Homo sapiens RAD17 homolog (S. pombe) pseudogene 2 (RAD17P2) on ch
NG_002929	Homo sapiens RAD17 homolog (S. pombe) pseudogene 1 (RAD17P1) on ch
NG_002930	Homo sapiens TAF9 pseudogene 1 (TAF9P1) on chromosome Y
NG_002931	Homo sapiens TAF9 pseudogene 2 (TAF9P2) on chromosome Y
NG_002932	Homo sapiens discs, large homolog 7 (Drosophila) pseudogene (LOC360012
NG_002933	Homo sapiens raft-linking protein pseudogene (LOC360015) on chromosome
NG_002934	Homo sapiens capicua homolog (Drosophila) pseudogene (LOC360016) on
NG_002935	Homo sapiens capicua homolog (Drosophila) pseudogene (LOC360017) on (
NG_002936	Homo sapiens HBxAg transactivated protein 2 pseudogene (LOC360018) on
NG_002937	Homo sapiens keratin 18 pseudogene 10 (KRT18P10) on chromosome Y
NG_002938	Homo sapiens PC4 and SFRS1 interacting protein 2 pseudogene (LOC3600)
NG_002939	Homo sapiens protein phosphatase 1, regulatory (inhibitor) subunit 12B pseu
NG_002940	Homo sapiens protein phosphatase 1, regulatory (inhibitor) subunit 12B (LOC
NG_002941	Homo sapiens ribosomal protein L41 pseudogene (LOC286568) on chromos
NG_002942	Homo sapiens ribosomal protein L41 pseudogene (LOC286570) on chromos
NG_002943	Homo sapiens intersectin 2 pseudogene (LOC360027) on chromosome Y
NG_002944	Homo sapiens intersectin 2 pseudogene (LOC360026) on chromosome Y
NG_002945	Homo sapiens intersectin 2 pseudogene (LOC360025) on chromosome Y
NG_002946	Homo sapiens intersectin 2 pseudogene (LOC360024) on chromosome Y
NG_002947	Homo sapiens tubulin, beta polypeptide 4, member Q pseudogene (LOC140)
NG_002948	Homo sapiens tubulin, beta polypeptide 4, member Q pseudogene (LOC349)
NG_002949	Homo sapiens hypothetical protein MGC23909 pseudogene (LOC360028) or
NG_002950	Homo sapiens hypothetical protein MGC45134 (MGC45134) pseudogene on
NG_002951	Homo sapiens cyclic-AMP-dependent transcription factor ATF-4 pseudogene
NG_002952	Homo sapiens hypothetical protein BC016683 pseudogene (LOC360029) on
NG_002953	Homo sapiens cytochrome c, somatic pseudogene (HCP1) on chromosome
NG_002954	Homo sapiens cytochrome c, somatic pseudogene (HCP3) on chromosome
NG_002955	Homo sapiens cytochrome c, somatic pseudogene (HCP4) on chromosome
NG_002956	Homo sapiens cytochrome c, somatic pseudogene (HCP5) on chromosome
NG_002957	Homo sapiens cytochrome c, somatic pseudogene (HCP6) on chromosome;
NG_002958	Homo sapiens cytochrome c, somatic pseudogene (HCP7) on chromosome :
NG_002959	Homo sapiens cytochrome c, somatic pseudogene (HCP8) on chromosome:
NG_002960	Homo sapiens cytochrome c, somatic pseudogene (HCP9) on chromosome :
NG_002961	Homo sapiens cytochrome c, somatic pseudogene (HCP10) on chromosome
NG_002962	Homo sapiens cytochrome c, somatic pseudogene (HCP11) on chromosome
NG_002963	Homo sapiens cytochrome c, somatic pseudogene (HCP12) on chromosome
NG_002964	Homo sapiens cytochrome c, somatic pseudogene (HCP13) on chromosome
NG_002965	Homo sapiens cytochrome c, somatic pseudogene (HCP14) on chromosome
NG_002966	Homo sapiens cytochrome c, somatic pseudogene (HCP16) on chromosome
NG_002967	Homo sapiens cytochrome c, somatic pseudogene (HCP17) on chromosome
NG_002968	Homo sapiens cytochrome c, somatic pseudogene (HCP18) on chromosome
NG_002969	Homo sapiens cytochrome c, somatic pseudogene (HCP19) on chromosome
NG_002970	Homo sapiens cytochrome c, somatic pseudogene (HCP20) on chromosome
NG_002971	Homo sapiens cytochrome c, somatic pseudogene (HCP21) on chromosome
NG_002972	Homo sapiens cytochrome c, somatic pseudogene (HCP22) on chromosome
NG_002973	Homo sapiens cytochrome c, somatic pseudogene (HCP23) on chromosome
NG_002974	Homo sapiens cytochrome c, somatic pseudogene (HCP24) on chromosome
NG_002975	Homo sapiens cytochrome c, somatic pseudogene (HCP25) on chromosome

NG 002976 Homo sapiens cytochrome c, somatic pseudogene (HCP26) on chromosome NG 002977 Homo sapiens cytochrome c, somatic pseudogene (HCP27) on chromosome NG 002978 Homo sapiens cytochrome c, somatic pseudogene (HCP28) on chromosome NG_002979 Homo sapiens cytochrome c, somatic pseudogene (HCP29) on chromosome NG_002980 Homo sapiens cytochrome c, somatic pseudogene (HCP30) on chromosome NG_002981 Homo sapiens cytochrome c, somatic pseudogene (HCP32) on chromosome NG 002982 Homo sapiens cytochrome c, somatic pseudogene (HCP33) on chromosome NG 002983 Homo sapiens cytochrome c, somatic pseudogene (HCP34) on chromosome NG 002984 Homo sapiens cytochrome c, somatic pseudogene (HCP35) on chromosome NG 002985 Homo sapiens cytochrome c, somatic pseudogene 1 (CYCSP1) on chromoso NG 002986 Homo sapiens cytochrome c, somatic pseudogene (HCP37) on chromosome NG 002987 Homo sapiens cytochrome c, somatic pseudogene (HCP38) on chromosome NG 002988 Homo sapiens cytochrome c, somatic pseudogene (HCP39) on chromosome NG 002989 Homo sapiens cytochrome c, somatic pseudogene (HCP40) on chromosome NG 002990 Homo sapiens cytochrome c, somatic pseudogene (HCP41) on chromosome NG_002991 Homo sapiens cytochrome c, somatic pseudogene (HCP42) on chromosome NG 002992 Homo sapiens cytochrome c, somatic pseudogene (HCP43) on chromosome NG 002993 Homo sapiens cytochrome c, somatic pseudogene (HCP44) on chromosome NG 002994 Homo sapiens cytochrome c, somatic pseudogene (HCP45) on chromosome NG_002995 Homo sapiens cytochrome c, somatic pseudogene (HCP48) on chromosome NG 002996 Homo sapiens thymosin-like 5 (TMSL5) pseudogene on chromosome 11 NG 002997 Homo sapiens thymosin-like 7 (TMSL7) pseudogene on chromosome X NG 002998 Homo sapiens NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4, 9 NG_002999 Homo sapiens cytochrome c, somatic pseudogene (HCP49) on chromosome NG_003006 Homo sapiens RNA binding motif protein, Y-linked, family 1, member H (RBN NG_003008 Homo sapiens nuclease sensitive element binding protein 1 pseudogene (bA NG 003009 Homo sapiens argininosuccinate synthetase pseudogene 8 (ASSP8) on chro NG_003010 Homo sapiens cytochrome c oxidase subunit Vb-like 1 (COX5BL1) pseudoge NG_003011 Homo sapiens glyceraldehyde-3-phosphate dehydrogenase-like 4 (GAPDL4) NG 003012 Homo sapiens glycine dehydrogenase (decarboxylase) pseudogene (GLDCF Homo sapiens general transcription factor IIF, polypeptide 2-like (GTF2F2L) NG 003013 NG_003014 Homo sapiens heat shock 90kDa protein 1, alpha-like 2 (HSPCAL2) pseudoç Homo sapiens heat shock 90kDa protein 1, beta pseudogene 1 (HSPCP1) or NG_003015 NG_003016 Homo sapiens lactate dehydrogenase A-like 1 (LDHAL1) pseudogene on chr NG 003017 Homo sapiens sorcin-like (SRIL) pseudogene on chromosome 4 NG 003018 Homo sapiens v-raf-1 murine leukemia viral oncogene homolog 1 pseudoger NG 003019 Homo sapiens actin, beta pseudogene 2 (ACTBP2) on chromosome 5 NG 003020 Homo sapiens actin, beta pseudogene 4 (ACTBP4) on chromosome 5 NG_003021 Homo sapiens argininosuccinate synthetase pseudogene 10 (ASSP10) on cl NG 003022 Homo sapiens argininosuccinate synthetase pseudogene 9 (ASSP9) on chro NG 003023 Homo sapiens OFD1 pseudogene 1 (OFD1P1) on chromosome 5 NG 003024 Homo saplens diazepam binding inhibitor-like 1 (DBIL1) pseudogene on chrc Homo sapiens chemokine ligand 14, chemokine ligand 15 transcription unit (NG 003025 Homo sapiens endogenous retroviral pol gene-like sequence 2 (ERPL2) psei NG_003026 Homo sapiens glyceraldehyde-3-phosphate dehydrogenase-like 16 (GAPDL: NG_003027 Homo sapiens ferritin, heavy polypeptide-like 10 (FTHL10) pseudogene on c NG_003028 NG_003029 Homo sapiens gap junction protein, alpha 1, 43kDa (connexin 43) pseudogei NG_003030 Homo sapiens glutamate-ammonia ligase (glutamine synthase)-like 1 (GLUL NG_003031 Homo sapiens hypoxanthine phosphoribosyltransferase pseudogene 2 (HPR NG_003032 Homo sapiens moesin-like 1 (MSNL1) pseudogene on chromosome 5 NG_003033 Homo sapiens ribosomal protein S17 pseudogene 2 (RPS17P2) on chromos NG_003034 Homo sapiens ribosomal protein S20 pseudogene 3 (RPS20P3) on chromos NG_003035 Homo sapiens ribosomal protein S20 pseudogene 4 (RPS20P4) on chromos Homo sapiens t-complex 1-like 2 (TCP1L2) pseudogene on chromosome 5 NG_003036 Homo saplens X-box binding protein pseudogene 1 (XBPP1) on chromosome NG_003037 Homo sapiens eukaryotic translation elongation factor 1 beta 3 (EEF1B3) psc NG 003038 NG_003039 Homo sapiens actin, gamma pseudogene 10 (ACTGP10) on chromosome X

NG 003040

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Homo sapiens brain cytoplasmic RNA 1, pseudogene 1 (BCYRN1P1) on chro

NG 003041 Homo sapiens RNA binding motif protein, Y-linked, family 2, member B pseu Homo sapiens RNA binding motif protein, Y-linked, family 2, member C pseu NG 003042 Homo sapiens RNA binding motif protein, Y-linked, family 2, member D pseu NG 003043 NG 003044 Homo sapiens centromere protein C2, 140kDa (CENPC2) pseudogene on ch NG 003045 Homo sapiens eukaryotic translation elongation factor 1 beta 1 (EEF1B1) psi Homo sapiens DNA segment on chromosome 6 (unique, pseudogene) 2723 NG_003061 Homo sapiens ribosomal protein L7a pseudogene 1 (RPL7AP1) on chromosomal NG_003062 NG_003063 Homo sapiens zinc finger protein 381, Y-linked pseudogene (ZNF381P) on c Homo sapiens RNA binding motif protein, Y-linked, family 2, member A pseu NG_003064 Homo sapiens RNA binding motif protein, Y-linked, family 2, pseudogene (LC NG 003070 Homo sapiens MADS box transcription enhancer factor 2, polypeptide A psei NG_003072 NG_003073 Homo sapiens protein kinase, cAMP-dependent, regulatory, type I, alpha pse NG_003074 Homo sapiens RNA binding motif protein, Y-linked, family 2, pseudogene (LC Homo sapiens RNA binding motif protein, Y-linked, family 2, pseudogene (LC NG 003075 Homo sapiens ring finger protein 134 pseudogene 1 (RNF134P1) on chromo NG_003076 Homo sapiens testis specific protein, Y-linked pseudogene 1 (TSPYP1) on cl NG 003077 Homo sapiens testis specific protein, Y-linked pseudogene 2 (TSPYP2) on cl NG_003078 Homo sapiens testis specific protein, Y-linked pseudogene 3 (TSPYP3) on cl NG_003079 Homo sapiens testis specific protein, Y-linked pseudogene 4 (TSPYP4) on cl NG 003080 Homo sapiens RNA binding motif protein, Y-linked, family 2, pseudogene (LC NG 003081 Homo sapiens RNA binding motif protein, Y-linked, family 2, pseudogene (LC NG 003082 Homo sapiens RNA binding motif protein, Y-linked, family 2, pseudogene (LC NG 003083 Homo sapiens RNA binding motif protein, Y-linked, family 2, pseudogene (LC NG 003084 Homo sapiens RNA binding motif protein, Y-linked, family 2, pseudogene (LC NG 003085 NG 003086 Homo sapiens RNA binding motif protein, Y-linked, family 2, pseudogene (LC NG 003087 Homo sapiens RNA binding motif protein, Y-linked, family 2, pseudogene (LC NG 003088 Homo sapiens RNA binding motif protein, Y-linked, family 2, pseudogene (LC Homo sapiens RNA binding motif protein, Y-linked, family 2, pseudogene (LC NG 003089 NG_003090 Homo sapiens RNA binding motif protein, Y-linked, family 2, pseudogene (LC Homo sapiens RNA binding motif protein, Y-linked, family 2, pseudogene (LC NG 003091 NG 003092 Homo sapiens RNA binding motif protein, Y-linked, family 2, pseudogene (LC NG_003093 Homo sapiens testis specific protein, Y-linked pseudogene 5 (TSPYP5) on cl NG_003094 Homo sapiens X Kell blood group precursor-related, Y-linked pseudogene 1 NG_003095 Homo sapiens X Kell blood group precursor-related, Y-linked pseudogene 2 NG 003096 Homo sapiens X Kell blood group precursor-related, Y-linked pseudogene 3 Homo sapiens X Kell blood group precursor-related, Y-linked pseudogene 4 NG 003097 Homo sapiens X Kell blood group precursor-related, Y-linked pseudogene 5 NG 003098 NG_003099 Homo sapiens X Kell blood group precursor-related, Y-linked pseudogene (X NG_003100 Homo sapiens choline kinase-like, carnitine palmitoyltransferase 1B (muscle) NG 003101 Homo sapiens ubiquitin-conjugating enzyme E2L 1 (UBE2L1) pseudogene o NG 003102 Homo sapiens COP9 constitutive photomorphogenic homolog subunit 5 pseu NG 003103 Homo sapiens COP9 pseudogene (LOC375350) on chromosome 3 Homo sapiens zinc finger protein 91 homolog (mouse), ciliary neurotrophic fa NG 003104 Homo sapiens E2F transcription factor 6 pseudogene (LOC376818) on chror NG 003105 Homo sapiens E2F transcription factor 6 pseudogene (LOC386610) on chror NG 003106 Homo sapiens solute carrier family 25 (mitochondrial carrier; adenine nucleo NG 003107 Homo sapiens similar to v-raf murine sarcoma viral oncogene homolog B1 ps NG 003108 Homo sapiens osteoclast stimulating factor 1 pseudogene (OSTF1P) on chrc NG 003109 NG_003110 Homo sapiens LAG1 longevity assurance homolog 1 (S. cerevisiae), growth NG 003111 Homo sapiens serine/threonine kinase 6-like pseudogene (STK6LP) on chron Homo sapiens OFD1 pseudogene Y-linked 1 (OFDYP1) on chromosome Y NG 003114 Homo sapiens OFD1 pseudogene Y-linked 2 (OFDYP2) on chromosome Y NG 003115 Homo sapiens OFD1 pseudogene Y-linked 3 (OFDYP3) on chromosome Y NG 003116 Homo sapiens OFD1 pseudogene Y-linked 4 (OFDYP4) on chromosome Y NG 003117 Homo sapiens OFD1 pseudogene Y-linked 5 (OFDYP5) on chromosome Y NG 003118 Homo sapiens OFD1 pseudogene Y-linked 6 (OFDYP6) on chromosome Y NG 003119

NG_003120	Homo sapiens OFD1 pseudogene Y-linked 7 (OFDYP7) on chromosome Y
NG 003121	Homo sapiens OFD1 pseudogene Y-linked 8 (OFDYP8) on chromosome Y
NG 003122	Homo sapiens OFD1 pseudogene Y-linked 9 (OFDYP9) on chromosome Y
NG 003125	Homo sapiens OFD1 pseudogene Y-linked 11 (OFDYP11) on chromosome
NG 003126	Homo sapiens OFD1 pseudogene Y-linked 12 (OFDYP12) on chromosome
NG 003127	Homo sapiens OFD1 pseudogene Y-linked 13 (OFDYP13) on chromosome \
_	
NG_003128	Homo sapiens OFD1 pseudogene Y-linked 14 (OFDYP14) on chromosome
NG_003129	Homo sapiens OFD1 pseudogene Y-linked 15 (OFDYP15) on chromosome \
NG_003130	Homo sapiens chromodomain protein, Y-linked 10 pseudogene (CDY10P) or
NG_003131	Homo sapiens chromodomain protein, Y-linked 3 pseudogene (CDY3P) on c
NG_003132	Homo sapiens chromodomain protein, Y-linked 5 pseudogene (CDY5P) on c
NG_003133	Homo sapiens chromodomain protein, Y-linked 9 pseudogene (CDY9P) on c
NG_003134	Homo sapiens family with sequence similarity 8, member A7 pseudogene (Fi
NG_003135	Homo sapiens family with sequence similarity 8, member A8 pseudogene (Fi
NG_003136	Homo sapiens family with sequence similarity 8, member A9 pseudogene (Fi
NG 003137	Homo sapiens family with sequence similarity 8, member A1 pseudogene (LC
NG 003138	Homo sapiens chromodomain protein, Y-linked 4 pseudogene (CDY4P) on c
NG 003139	Homo sapiens chromodomain protein, Y-linked 6 pseudogene (CDY6P) on c
NG 003140	Homo sapiens chromodomain protein, Y-linked 7 pseudogene (CDY7P) on c
NG 003141	Homo sapiens chromodomain protein, Y-linked 8 pseudogene (CDY8P) on c
NG_003142	Homo sapiens chromodomain protein, Y-linked 12 pseudogene (CDY12P) or
NG 003143	Homo sapiens chromodomain protein, Y-linked 12 pseudogene (CDY13P) or
_	Homo sapiens chromodomain protein, Y-linked 14 pseudogene (CDY14P) or
NG_003144	Homo sapiens chromodomain protein, Y-linked 14 pseudogene (CDY15P) or
NG_003145	
NG_003146	Homo sapiens chromodomain protein, Y-linked 16 pseudogene (CDY16P) or
NG_003147	Homo sapiens chromodomain protein, Y-linked 17 pseudogene (CDY17P) or
NG_003148	Homo sapiens chromodomain protein, Y-linked 18 pseudogene (CDY18P) or
NG_003149	Homo sapiens chromodomain protein, Y-linked 19 pseudogene (CDY19P) or
NG_003150	Homo sapiens chromodomain protein, Y-linked 20 pseudogene (CDY20P) or
NG_003151	Homo sapiens chromodomain protein, Y-linked 21 pseudogene (CDY21P) or
NG_003152	Homo sapiens chromodomain protein, Y-linked 22 pseudogene (CDY22P) or
NG_003153	Homo sapiens chromodomain protein, Y-linked 23 pseudogene (CDY23P) or
NG_003154	Homo sapiens chromodomain protein, Y-linked 11 pseudogene (CDY11P) or
NG_003155	Homo sapiens ribosomal protein L29 pseudogene 1 (RPL29P1) on chromosomal
NG_003156	Homo sapiens ribosomal protein L39 pseudogene 3 (RPL39P3) on chromosomal
NG 003157	Homo sapiens v-raf murine sarcoma 3611 viral oncogene homolog pseudoge
NG_003158	Homo sapiens telomeric repeat binding factor (NIMA-interacting) 1 pseudoge
NG 003159	Homo sapiens pseudogene of CXYorf1 (CXYorf1P) on chromosome 16
NG 003160	Homo sapiens ribosomal protein L24 pseudogene 4 (RPL24P4) on chromosomal
NG 003162	Homo sapiens actin, beta pseudogene 9 (ACTBP9) on chromosome 18
NG_003163	Homo sapiens creatine kinase B pseudogene 1 (CKBP1) on chromosome 16
NG 003164	Homo sapiens transferrin pseudogene (TFP) on chromosome 3
NG_003165	Homo sapiens platelet-activating factor acetylhydrolase, isoform lb, pseudog
	Homo sapiens olfactory receptor, family 7, subfamily A, member 8 pseudoge
NG_003166	Homo sapiens platelet-activating factor acetylhydrolase, isoform lb, pseudog
NG_003167	
NG_003168	Homo sapiens ubiquitin specific protease 9, Y-linked pseudogene (LOC3873
NG_003169	Homo sapiens ubiquitin specific protease 9, Y-linked pseudogene (LOC3873
NG_003170	Homo saplens ubiquitin specific protease 9, Y-linked pseudogene (LOC3873
NG_003171	Homo sapiens USP9Y pseudogene 1 (USP9YP1) on chromosome Y
NG_003172	Homo sapiens USP9Y pseudogene 2 (USP9YP2) on chromosome Y
NG_003173	Homo sapiens ubiquitin specific protease 9, Y-linked pseudogene (LOC3873
NG_003180	Homo saplens cytochrome P450, family 2, subfamily D, polypeptide 6 genom
NG_003183	Homo sapiens BRCA1 pseudogene (LBRCA1) on chromosome 17
NG_003186	Homo sapiens transcription elongation factor A (SII), 1 pseudogene (LOC39§
NG_003187	Homo sapiens deafness dystonia pseudogene (DDPP) on chromosome 2
NG_003188	Homo sapiens chemokine (C-C motif) ligand 3-like 2 (CCL3L2) pseudogene
NG_003189	Homo sapiens ribosomal protein S26 pseudogene 6 (RPS26P6) on chromos

NG 003190 Homo sapiens pseudogene of ribosomal protein L9 (LOC388147) on chromo Homo sapiens PR/SET domain containing protein 07 pseudogene (SET07p) NG 003193 Homo sapiens olfactory receptor, family 2, subfamily B, member 8 pseudoge NG 003194 NG 003195 Homo sapiens olfactory receptor, family 52, subfamily L, member 2 pseudogi NG 003196 Homo sapiens olfactory receptor, family 10, subfamily D, member 4 pseudog NG 003197 Homo sapiens olfactory receptor, family 52, subfamily E, member 1 pseudog Homo sapiens olfactory receptor, family 4, subfamily K, member 3 pseudoge NG 003198 Homo sapiens ELK2, member of ETS oncogene family, pseudogene 2 (ELK2 NG 003200 Homo sapiens olfactory receptor, family 4, subfamily G, member 2 pseudoge NG 003201 Homo saplens eukaryotic translation initiation factor 2, subunit 3 gamma, 52 NG 003215 NG_003216 Homo sapiens ribosomal protein S25 pseudogene (LOC283114) on chromos NG_003217 Homo sapiens heat shock 60kDa protein 1 pseudogene (LOC283320) on chi Homo sapiens synaptogyrin 2 pseudogene (LOC283698) on chromosome 15 NG_003218 NG 003219 Homo sapiens transcription elongation factor B (SIII), polypeptide 1 pseudog Homo sapiens olfactory receptor, family 11, subfamily 1, member 1 pseudoge NG_003221 NG_003222 Homo sapiens olfactory receptor, family 4, subfamily G, member 3 pseudoge NG_003230 Homo sapiens olfactory receptor, family 5, subfamily D, member 11 pseudog NG 003253 Homo sapiens cytochrome c oxidase, subunit 8B pseudogene (COX8B) on c Homo sapiens immunoglobulin heavy constant epsilon P2 (IGHEP2) pseudo! NG_003254 Homo sapiens Rhesus blood group cluster (RHD/RHCE@) on chromosome NG_003255 Homo sapiens gonadotropin-releasing hormone receptor 2 pseudogene (GN NG_003256 Homo sapiens folate hydrolase 2 (FOLH2) pseudogene on chromosome 11 NG 003258 Homo sapiens ribosomal protein S9 pseudogene 1 (RPS9P1) on chromosom NG 003259 Homo sapiens laminin receptor 1 pseudogene 14 (LAMR1P14) on chromoso NG 004075 Homo sapiens thiopurine S-methyltransferase pseudogene (LOC400650) on NG 004077 Homo sapiens protein tyrosine phosphatase type IVA pseudogene 1 (PTP4A NG_004085 Homo sapiens olfactory receptor, family 5, subfamily J, member 1 pseudogei NG_004086 Homo sapiens olfactory receptor, family 7, subfamily A, member 2 pseudoge NG 004087 NG 004088 Homo sapiens olfactory receptor, family 2, subfamily E, member 1 pseudoge NG 004089 Homo sapiens olfactory receptor, family 4, subfamily H, member 12 pseudog NG 004091 Homo sapiens mitochondrial ribosomal protein S17 pseudogene (MRPS17P Homo sapiens mitochondrial ribosomal protein S17 pseudogene (MRPS17P NG 004092 Homo sapiens Nanog homeobox pseudogene 8 (NANOGP8) on chromosom NG 004093 Homo sapiens Nanog homeobox pseudogene 3 (NANOGP3) on chromosom NG_004095 Homo sapiens Nanog homeobox pseudogene 10 (NANOGP10) on chromosc NG_004096 Homo sapiens Nanog homeobox pseudogene 9 (NANOGP9) on chromosom NG 004097 Homo sapiens NANOG homeobox pseudogene 7 (NANOGP7) on chromosor NG 004098 Homo sapiens NANOG homeobox pseudogene 2 (NANOGP2) on chromosoi NG_004099 Homo sapiens NANOG homeobox pseudogene 4 (NANOGP4) on chromosoi NG_004100 Homo sapiens NANOG homeobox pseudogene 5 (NANOGP5) on chromosoi NG_004101 Homo sapiens NANOG pseudogene 6 (NANOGP6) on chromosome 10 NG 004102 NG_004103 Homo sapiens NANOG homeobox pseudogene 11 (NANOGP11) on chromo: NG 004109 Homo sapiens YTH domain family 2 pseudogene (YTHDF2P) on chromosom Homo sapiens ribonuclease H1 pseudogene 2 (RNASEH1P2) on chromoson NG 004110 Homo sapiens ribonuclease H1 pseudogene 1 (RNASEH1P1) on chromoson NG 004111 Homo sapiens endogenous retroviral family W, env(C7), member 1 (syncytin NG 004112 Homo sapiens CCL3L1-CCL4L1 chemokine gene cluster (CCL3L1-CCL4L1@ NG 004113 Homo sapiens VKORC1 pseudogene 1 (LOC414355) on chromosome X NG 004115 Homo sapiens VKORC1 pseudogene 2 (LOC414357) on chromosome 1 NG 004116 Homo sapiens olfactory receptor, family 7, subfamily E, member 22 pseudog NG 004122 Homo sapiens olfactory receptor, family 7, subfamily E, member 21 pseudog NG 004123 NG_004124 Homo sapiens olfactory receptor, family 5, subfamily E, member 1 pseudoge Homo sapiens olfactory receptor, family 10, subfamily D, member 3 pseudog NG 004125 NG 004126 Homo sapiens olfactory receptor, family 10, subfamily D, member 1 pseudog NG 004127 Homo sapiens olfactory receptor, family 7, subfamily E, member 66 pseudog Homo sapiens olfactory receptor, family 7, subfamily E, member 47 pseudog NG 004128 Homo sapiens olfactory receptor, family 7, subfamily E, member 36 pseudog NG 004129

NG 004130

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Homo sapiens olfactory receptor, family 7, subfamily E, member 29 pseudog

Homo sapiens olfactory receptor, family 7, subfamily E, member 28 pseudog NG 004131 Homo sapiens olfactory receptor, family 7, subfamily E, member 25 pseudog NG 004132 Homo sapiens olfactory receptor, family 4, subfamily G, member 1 pseudoge NG 004133 Homo sapiens olfactory receptor, family 4, subfamily F, member 1 pseudoge NG 004134 Homo sapiens olfactory receptor, family 4, subfamily E, member 1 pseudoge NG 004135 Homo sapiens olfactory receptor, family 4, subfamily B, member 2 pseudoge NG 004136 Homo sapiens olfactory receptor, family 2, subfamily V, member 1 (OR2V1) | NG 004137 Homo sapiens olfactory receptor, family 1, subfamily H, member 1 pseudoge NG_004138 Homo sapiens olfactory receptor, family 5, subfamily P, member 1 pseudoge NG_004139 Homo sapiens olfactory receptor, family 6, subfamily M, member 3 pseudoge NG_004140 Homo sapiens olfactory receptor, family 11, subfamily H, member 2 (OR11H. NG 004141 Homo sapiens olfactory receptor, family 51, subfamily B, member 3 pseudog NG 004142 Homo sapiens olfactory receptor, family 5, subfamily AL, member 2 pseudog NG_004143 Homo sapiens olfactory receptor, family 5, subfamily AL, member 1 pseudog NG_004144 Homo sapiens olfactory receptor, family 5, subfamily BM, member 1 pseudog NG 004145 Homo sapiens olfactory receptor, family 8, subfamily K, member 2 pseudoge NG 004146 Homo sapiens olfactory receptor, family 8, subfamily I, member 1 pseudoger NG_004147 NG_004148 Homo sapiens olfactory receptor, family 4, subfamily G, member 4 pseudoge NG_004149 Homo sapiens olfactory receptor, family 5, subfamily M, member 7 pseudoge Homo sapiens olfactory receptor, family 5, subfamily M, member 6 pseudoge NG_004150 Homo sapiens olfactory receptor, family 5, subfamily M, member 5 pseudoge NG 004151 Homo sapiens olfactory receptor, family 5, subfamily M, member 4 pseudogε NG_004152 Homo sapiens olfactory receptor, family 10, subfamily AB, member 1 pseudo NG_004153 Homo sapiens olfactory receptor, family 5, subfamily M, member 2 pseudoge NG 004154 Homo sapiens olfactory receptor, family 6, subfamily M, member 2 pseudoge NG 004155 Homo sapiens olfactory receptor, family 5, subfamily BJ, member 1 pseudog NG_004156 Homo sapiens olfactory receptor, family 5, subfamily BH, member 1 pseudog NG_004157 Homo sapiens olfactory receptor, family 5, subfamily AW, member 1 pseudo! NG_004158 NG_004159 Homo sapiens olfactory receptor, family 4, subfamily W, member 1 pseudoge Homo sapiens olfactory receptor, family 4, subfamily K, member 12 pseudog NG_004160 Homo sapiens olfactory receptor, family 4, subfamily K, member 11 pseudog NG 004161 Homo sapiens olfactory receptor, family 4, subfamily Q, member 1 pseudoge NG 004162 Homo sapiens olfactory receptor, family 11, subfamily K, member 1 pseudog NG 004163 Homo sapiens olfactory receptor, family 11, subfamily J, member 2 pseudogo NG 004164 Homo sapiens olfactory receptor, family 11, subfamily J, member 1 pseudogo NG 004165 Homo sapiens olfactory receptor, family 11, subfamily H, member 3 pseudog NG 004166 Homo sapiens olfactory receptor, family 7, subfamily K, member 1 pseudoge NG_004167 Homo sapiens spondyloepiphyseal dysplasia, late, pseudogene 5 (SEDLP5) NG_004168 Homo sapiens spondyloepiphyseal dysplasia, late, pseudogene 3 (SEDLP3) NG 004169 Homo sapiens olfactory receptor, family 7, subfamily E, member 106 pseudo NG 004170 Homo sapiens olfactory receptor, family 7, subfamily E, member 105 pseudo NG 004171 Homo sapiens olfactory receptor, family 4, subfamily K, member 16 pseudog NG 004172 Homo sapiens olfactory receptor, family 7, subfamily E, member 111 pseudo NG_004173 Homo sapiens olfactory receptor, family 7, subfamily E, member 104 pseudo NG_004174 Homo sapiens olfactory receptor, family 7, subfamily E, member 101 pseudo NG_004175 Homo saplens olfactory receptor, family 9, subfamily R, member 1 pseudoge NG 004176 Homo sapiens olfactory receptor, family 9, subfamily M, member 1 pseudoge NG 004177 Homo sapiens olfactory receptor, family 9, subfamily I, member 3 pseudoger NG 004178 Homo sapiens olfactory receptor, family 9, subfamily G, member 3 pseudoge NG 004179 Homo sapiens olfactory receptor, family 9, subfamily G, member 2 pseudoge NG 004180 Homo sapiens olfactory receptor, family 8, subfamily R, member 1 pseudoge NG 004181 Homo sapiens olfactory receptor, family 8, subfamily Q, member 1 pseudoge NG 004182 Homo sapiens olfactory receptor, family 8, subfamily L, member 1 pseudoge NG 004183 Homo sapiens olfactory receptor, family 8, subfamily K, member 4 pseudoge NG_004184 Homo sapiens olfactory receptor, family 8, subfamily J, member 2 pseudoger NG 004185 Homo sapiens olfactory receptor, family 7, subfamily A, member 128 pseudo NG 004186

NG_004188	Homo sapiens olfactory receptor, family 5, subfamily W, member 1 pseudoge
NG_004189	Homo sapiens olfactory receptor, family 5, subfamily P, member 4 pseudoge
NG_004190	Homo sapiens olfactory receptor, family 5, subfamily M, member 12 pseudog
NG_004191	Homo sapiens olfactory receptor, family 5, subfamily G, member 5 pseudoge
NG_004192	Homo sapiens olfactory receptor, family 5, subfamily G, member 4 pseudoge
NG 004193	Homo sapiens olfactory receptor, family 5, subfamily F, member 2 pseudoge
NG_004194	Homo sapiens olfactory receptor, family 5, subfamily D, member 17 pseudog
NG_004195	Homo sapiens olfactory receptor, family 5, subfamily D, member 15 pseudog
NG_004196	Homo sapiens olfactory receptor, family 5, subfamily BR, member 1 pseudog
NG 004197	Homo sapiens olfactory receptor, family 5, subfamily BQ, member 1 pseudoc
NG_004198	Homo sapiens olfactory receptor, family 5, subfamily BP, member 1 pseudog
NG_004199	Homo sapiens olfactory receptor, family 5, subfamily BN, member 1 pseudog
NG_004200	Homo sapiens olfactory receptor, family 5, subfamily BL, member 1 pseudog
NG 004201	Homo sapiens olfactory receptor, family 5, subfamily BE, member 1 pseudog
NG 004202	Homo sapiens olfactory receptor, family 5, subfamily BC, member 1 pseudog
NG_004203	Homo sapiens olfactory receptor, family 5, subfamily BB, member 1 pseudog
NG_004204	Homo sapiens olfactory receptor, family 5, subfamily BA, member 1 pseudog
NG 004205	Homo sapiens olfactory receptor, family 5, subfamily B, member 19 pseudog
NG_004206	Homo sapiens olfactory receptor, family 5, subfamily B, member 15 pseudog
NG_004207	Homo sapiens olfactory receptor, family 5, subfamily AZ, member 1 pseudog
NG_004208	Homo sapiens olfactory receptor, family 5, subfamily AQ, member 1 pseudoc
NG_004209	Homo sapiens olfactory receptor, family 5, subfamily AP, member 1 pseudog
NG_004210	Homo sapiens olfactory receptor, family 5, subfamily AN, member 2 pseudog
NG_004211	Homo sapiens olfactory receptor, family 5, subfamily AM, member 1 pseudoc
NG_004212	Homo sapiens olfactory receptor, family 5, subfamily AK, member 3 pseudog
NG_004213	Homo sapiens olfactory receptor, family 5, subfamily AK, member 1 pseudog
NG_004214	Homo sapiens olfactory receptor, family 56, subfamily A, member 7 pseudog
NG_004215	Homo sapiens olfactory receptor, family 52, subfamily Y, member 1 pseudog
NG_004216	Homo sapiens olfactory receptor, family 52, subfamily V, member 1 pseudog
NG_004217	Homo sapiens olfactory receptor, family 52, subfamily U, member 1 pseudog
NG_004218	Homo sapiens olfactory receptor, family 52, subfamily T, member 1 pseudog
NG_004219	Homo sapiens olfactory receptor, family 52, subfamily Q, member 1 pseudog
NG_004220	Homo sapiens olfactory receptor, family 52, subfamily P, member 1 pseudog
NG_004221	Homo sapiens olfactory receptor, family 52, subfamily N, member 3 pseudog
NG_004222	Homo sapiens olfactory receptor, family 52, subfamily H, member 2 pseudog
NG_004223	Homo sapiens olfactory receptor, family 52, subfamily E, member 7 pseudog
NG_004224	Homo sapiens olfactory receptor, family 52, subfamily B, member 5 pseudog
NG_004225	Homo sapiens olfactory receptor, family 52, subfamily B, member 1 pseudog
NG_004226	Homo sapiens olfactory receptor, family 51, subfamily K, member 1 pseudog
NG_004227	Homo sapiens olfactory receptor, family 51, subfamily E, member 1 pseudog
NG_004228	Homo sapiens olfactory receptor, family 51, subfamily C, member 1 pseudog
NG_004229	Homo sapiens olfactory receptor, family 51, subfamily A, member 10 pseudo
NG_004230	Homo sapiens olfactory receptor, family 4, subfamily R, member 3 pseudoge
NG_004231	Homo sapiens olfactory receptor, family 4, subfamily R, member 2 pseudoge
NG_004232	Homo sapiens olfactory receptor, family 4, subfamily D, member 8 pseudoge
NG_004233	Homo sapiens olfactory receptor, family 4, subfamily D, member 7 pseudoge
NG_004234	Homo sapiens olfactory receptor, family 4, subfamily C, member 14 pseudog
NG_004235	Homo sapiens olfactory receptor, family 4, subfamily A, member 8 pseudoge
NG_004236	Homo sapiens olfactory receptor, family 4, subfamily A, member 7 pseudoge
NG_004237	Homo sapiens olfactory receptor, family 4, subfamily A, member 3 pseudoge
NG_004238	Homo sapiens olfactory receptor, family 4, subfamily A, member 21 pseudog
NG_004239	
NG_004240	Homo sapiens olfactory receptor, family 4, subfamily A, member 18 pseudog
NG_004241	Homo sapiens olfactory receptor, family 4, subfamily A, member 14 pseudog
NG_004242	
NG_004243	Homo sapiens olfactory receptor, family 4, subfamily A, member 12 pseudog
NG_004244	Homo sapiens olfactory receptor, family 2, subfamily AH, member 1 pseudoc

NG_004245	Homo sapiens olfactory receptor, family 10, subfamily Y, member 1 pseudog
NG_004246	Homo sapiens olfactory receptor, family 10, subfamily W, member 1 (OR10V
NG_004247	Homo sapiens olfactory receptor, family 10, subfamily V, member 3 pseudog
NG_004248	Homo sapiens olfactory receptor, family 10, subfamily V, member 2 pseudog
NG 004249	Homo sapiens olfactory receptor, family 10, subfamily Q, member 2 pseudog
NG 004250	Homo sapiens olfactory receptor, family 7, subfamily M, member 1 pseudoge
NG 004251	Homo sapiens olfactory receptor, family 7, subfamily E, member 110 pseudo
NG 004252	Homo sapiens olfactory receptor, family 6, subfamily L, member 2 pseudoger
NG 004253	Homo saplens olfactory receptor, family 7, subfamily E, member 116 pseudo
NG 004254	Homo sapiens olfactory receptor, family 7, subfamily E, member 108 pseudo
NG 004255	Homo sapiens olfactory receptor, family 2, subfamily AM, member 1 pseudog
NG 004256	Homo sapiens offactory receptor, family 7, subfamily A, member 125 pseudo
NG 004257	Homo sapiens offactory receptor, family 9, subfamily P, member 1 pseudoge
NG 004258	Homo sapiens offactory receptor, family 9, subfamily N, member 1 pseudoge
NG_004259	
	Homo sapiens olfactory receptor, family 4, subfamily F, member 7 pseudoge
NG_004260	Homo sapiens olfactory receptor, family 2, subfamily W, member 6 pseudoge
NG_004261	Homo sapiens olfactory receptor, family 2, subfamily W, member 4 pseudoge
NG_004262	Homo sapiens olfactory receptor, family 7, subfamily E, member 99 pseudog
NG_004263	Homo sapiens olfactory receptor, family 5, subfamily M, member 14 pseudog
NG_004264	Homo sapiens olfactory receptor, family 7, subfamily A, member 129 pseudo
NG_004265	Homo sapiens olfactory receptor, family 7, subfamily A, member 122 pseudo
NG_004266	Homo sapiens olfactory receptor, family 7, subfamily E, member 100 pseudo
NG_004267	Homo sapiens olfactory receptor, family 5, subfamily AC, member 1 pseudog
NG_004268	Homo sapiens olfactory receptor, family 4, subfamily G, member 6 pseudoge
NG_004269	Homo sapiens olfactory receptor, family 9, subfamily H, member 1 pseudoge
NG_004270	Homo sapiens olfactory receptor, family 6, subfamily R, member 1 pseudoge
NG_004271	Homo sapiens olfactory receptor, family 6, subfamily K, member 1 pseudoge
NG_004272	Homo sapiens olfactory receptor, family 2, subfamily T, member 7 (OR2T7) r
NG_004273	Homo sapiens olfactory receptor, family 2, subfamily L, member 9 pseudoger
NG_004274	Homo sapiens olfactory receptor, family 2, subfamily L, member 6 pseudoger
NG_004275	Homo sapiens olfactory receptor, family 2, subfamily L, member 5 (OR2L5) p
NG_004276	Homo sapiens olfactory receptor, family 2, subfamily AQ, member 1 pseudog
NG_004277	Homo sapiens olfactory receptor, family 10, subfamily AE, member 1 pseudo
NG_004278	Homo sapiens olfactory receptor, family 10, subfamily AA, member 1 pseudo
NG_004279	Homo sapiens olfactory receptor, family 2, subfamily W, member 2 pseudoge
NG_004280	Homo sapiens olfactory receptor, family 2, subfamily B, member 7 pseudoge
NG_004281	Homo sapiens olfactory receptor, family 51, subfamily N, member 1 pseudog
NG_004282	Homo sapiens olfactory receptor, family 52, subfamily P, member 2 pseudog
NG_004283	Homo sapiens olfactory receptor, family 2, subfamily AP, member 1 (OR2AP
NG_004284	Homo sapiens olfactory receptor, family 11, subfamily M, member 1 pseudog
NG_004285	Homo sapiens olfactory receptor, family 9, subfamily K, member 1 pseudoge
NG_004286	Homo sapiens olfactory receptor, family 5, subfamily AV, member 1 pseudog
NG_004287	Homo sapiens olfactory receptor, family 6, subfamily P, member 1 (OR6P1)
NG_004288	Homo sapiens olfactory receptor, family 6, subfamily K, member 4 pseudoge
NG_004289	Homo sapiens olfactory receptor, family 2, subfamily AI, member 1 pseudoge
NG_004290	Homo sapiens olfactory receptor, family 2, subfamily A, member 15 pseudog
NG_004291	Homo sapiens olfactory receptor, family 7, subfamily E, member 136 pseudo
NG_004292	Homo sapiens olfactory receptor, family 2, subfamily A, member 3 pseudoge
NG_004293	Homo sapiens olfactory receptor, family 6, subfamily D, member 1 pseudoge
NG_004294	Homo sapiens olfactory receptor, family 7, subfamily E, member 39 pseudog
NG_004295	Homo sapiens olfactory receptor, family 4, subfamily C, member 50 pseudog
NG_004296	Homo sapiens olfactory receptor, family 4, subfamily D, member 12 pseudog
NG_004297	Homo sapiens olfactory receptor, family 7, subfamily E, member 149 pseudo
NG_004298	Homo sapiens olfactory receptor, family 10, subfamily AF, member 1 pseudo
NG_004299	Homo sapiens olfactory receptor, family 8, subfamily V, member 1 pseudoge
NG_004300	Homo sapiens olfactory receptor, family 5, subfamily BT, member 1 pseudog
NG_004301	Homo sapiens olfactory receptor, family 8, subfamily T, member 1 pseudoge

NG_004302	Homo sapiens olfactory receptor, family 11, subfamily P, member 1 pseudog
NG_004303	Homo sapiens olfactory receptor, family 7, subfamily E, member 148 pseudo
NG_004304	Homo sapiens olfactory receptor, family 52, subfamily Z, member 1 pseudog
NG_004305	Homo sapiens olfactory receptor, family 52, subfamily M, member 2 pseudoc
NG_004307	Homo sapiens olfactory receptor, family 7, subfamily E, member 1 pseudoge
NG_004308	Homo sapiens olfactory receptor, family 10, subfamily J, member 8 pseudogo
NG_004309	Homo sapiens olfactory receptor, family 7, subfamily E, member 140 pseudo
NG_004310	Homo sapiens olfactory receptor, family 2, subfamily Q, member 1 pseudoge
NG_004311	Homo sapiens olfactory receptor, family 52, subfamily B, member 3 pseudog
NG_004312	Homo sapiens olfactory receptor, family 8, subfamily G, member 3 pseudoge
NG_004313	Homo sapiens olfactory receptor, family 7, subfamily A, member 19 pseudog
NG_004314	Homo sapiens olfactory receptor, family 7, subfamily A, member 130 pseudo
NG_004315	Homo sapiens olfactory receptor, family 7, subfamily E, member 161 pseudo
NG_004317	Homo sapiens olfactory receptor, family 55, subfamily B, member 1 pseudog
NG_004318	Homo sapiens olfactory receptor, family 51, subfamily R, member 1 pseudog
NG_004319	Homo sapiens olfactory receptor, family 52, subfamily K, member 3 pseudog
NG_004320	Homo sapiens olfactory receptor, family 51, subfamily A, member 9 pseudog
NG_004321	Homo sapiens olfactory receptor, family 51, subfamily F, member 5 pseudog
NG_004322	Homo sapiens olfactory receptor, family 51, subfamily C, member 4 pseudog
NG_004323	Homo sapiens olfactory receptor, family 51, subfamily F, member 3 pseudog
NG_004324	Homo sapiens olfactory receptor, family 51, subfamily F, member 4 pseudog
NG_004325	Homo sapiens olfactory receptor, family 51, subfamily A, member 6 pseudog
NG_004326	Homo sapiens olfactory receptor, family 56, subfamily B, member 2 pseudog
NG_004327	Homo sapiens olfactory receptor, family 4, subfamily A, member 40 pseudog
NG_004328	Homo sapiens olfactory receptor, family 4, subfamily A, member 43 pseudog
NG_004329	Homo sapiens olfactory receptor, family 4, subfamily A, member 6 pseudoge
NG_004330	Homo sapiens olfactory receptor, family 4, subfamily A, member 2 pseudoge
NG_004331	Homo sapiens olfactory receptor, family 4, subfamily A, member 4 pseudoge
NG_004332	Homo sapiens olfactory receptor, family 4, subfamily A, member 11 pseudog
NG_004333	Homo sapiens olfactory receptor, family 4, subfamily A, member 9 pseudoge
NG_004334	Homo sapiens olfactory receptor, family 4, subfamily A, member 10 pseudog
NG_004335	Homo sapiens olfactory receptor, family 4, subfamily A, member 17 pseudog
NG_004336	Homo sapiens olfactory receptor, family 7, subfamily E, member 145 pseudo
NG_004337	Homo sapiens olfactory receptor, family 2, subfamily AT, member 2 pseudog
NG_004338	Homo sapiens olfactory receptor, family 2, subfamily AT, member 1 pseudog
NG_004339	Homo sapiens olfactory receptor, family 10, subfamily N, member 1 pseudog
NG_004340	Homo sapiens olfactory receptor, family 8, subfamily F, member 1 pseudoge
NG_004341	Homo sapiens olfactory receptor, family 8, subfamily A, member 2 pseudoge
NG_004342	Homo sapiens olfactory receptor, family 8, subfamily B, member 10 pseudog
NG_004343	Homo sapiens olfactory receptor, family 5, subfamily BS, member 1 pseudog
NG_004344	Homo sapiens olfactory receptor, family 10, subfamily U, member 1 pseudog
NG_004345	Homo sapiens olfactory receptor, family 6, subfamily C, member 5 pseudoge
NG_004346	Homo sapiens olfactory receptor, family 6, subfamily C, member 7 pseudoge
NG_004347	Homo sapiens olfactory receptor, family 6, subfamily C, member 71 pseudog
NG_004348	Homo sapiens olfactory receptor, family 6, subfamily U, member 2 pseudoge
NG_004349	Homo sapiens olfactory receptor, family 4, subfamily Q, member 2 pseudoge
NG_004350	Homo sapiens olfactory receptor, family 4, subfamily U, member 1 pseudoge
NG_004351	Homo saplens olfactory receptor, family 4, subfamily T, member 1 pseudoge
NG_004352	Homo sapiens olfactory receptor, family 11, subfamily G, member 1 pseudog
NG_004353	Homo sapiens olfactory receptor, family 11, subfamily H, member 5 pseudog
NG_004354	Homo sapiens olfactory receptor, family 11, subfamily H, member 7 pseudog
NG_004355	Homo sapiens olfactory receptor, family 4, subfamily N, member 3 pseudoge
NG_004356	Homo sapiens olfactory receptor, family 4, subfamily F, member 14 pseudog
NG_004357	Homo sapiens olfactory receptor, family 4, subfamily F, member 13 pseudog
NG_004358 NG_004359	Homo sapiens olfactory receptor, family 4, subfamily F, member 28 pseudog
NG_004359 NG_004360	Homo sapiens olfactory receptor, family 4, subfamily F, member 8 pseudoge Homo sapiens olfactory receptor, family 7, subfamily E, member 18 pseudog
140_004300	Thomas appens on actory receptor, raminy r, subtamily E, member 18 pseudog

NG_004361	Homo sapiens olfactory receptor, family 7, subfamily A, member 1 pseudoge
NG_004362	Homo sapiens olfactory receptor, family 10, subfamily R, member 3 pseudog
NG_004363	Homo sapiens olfactory receptor, family 6, subfamily K, member 5 pseudoge
NG_004364	Homo sapiens olfactory receptor, family 10, subfamily J, member 2 pseudogo
NG_004365	Homo sapiens olfactory receptor, family 10, subfamily J, member 7 pseudogo
NG 004366	Homo sapiens olfactory receptor, family 10, subfamily J, member 9 pseudog
NG 004367	Homo sapiens olfactory receptor, family 10, subfamily J, member 4 pseudogo
NG 004368	Homo sapiens olfactory receptor, family 7, subfamily E, member 23 pseudog
NG 004369	Homo sapiens olfactory receptor, family 5, subfamily S, member 1 pseudoge
NG 004370	Homo sapiens olfactory receptor, family 7, subfamily E, member 55 pseudog
NG 004371	Homo sapiens olfactory receptor, family 7, subfamily E, member 35 pseudog
NG 004372	Homo sapiens offactory receptor, family 9, subfamily A, member 3 pseudoge
NG 004373	Homo sapiens offactory receptor, family 2, subfamily R, member 1 pseudoge
_	Homo sapiens offactory receptor, family 10, subfamily AC, member 1 pseudo
NG_004374	
NG_004375	Homo sapiens olfactory receptor, family 2, subfamily A, member 13 pseudog
NG_004376	Homo sapiens olfactory receptor, family 7, subfamily E, member 158 pseudo
NG_004377	Homo sapiens olfactory receptor, family 13, subfamily E, member 1 pseudog
NG_004378	Homo sapiens olfactory receptor, family 13, subfamily C, member 6 pseudog
NG_004379	Homo sapiens olfactory receptor, family 2, subfamily S, member 1 pseudoge
NG_004380	Homo sapiens olfactory receptor, family 13, subfamily D, member 2 pseudog
NG_004381	Homo sapiens olfactory receptor, family 11, subfamily N, member 1 pseudog
NG_004382	Homo sapiens olfactory receptor, family 3, subfamily B, member 1 pseudoge
NG_004383	Homo sapiens spondyloepiphyseal dysplasia, late, pseudogene (LOC392597
NG_004384	Homo sapiens olfactory receptor, family 7, subfamily E, member 117 pseudo
NG 004385	Homo sapiens olfactory receptor, family 7, subfamily E, member 102 pseudo
NG_004386	Homo sapiens olfactory receptor, family 7, subfamily E, member 109 pseudo
NG 004387	Homo sapiens olfactory receptor, family 51, subfamily A, member 8 pseudog
NG_004388	Homo sapiens olfactory receptor, family 51, subfamily H, member 1 pseudog
NG 004389	Homo sapiens olfactory receptor, family 51, subfamily H, member 2 pseudog
NG 004390	Homo sapiens olfactory receptor, family 56, subfamily B, member 3 pseudog
NG 004391	Homo sapiens olfactory receptor, family 5, subfamily BK, member 1 pseudog
NG_004392	Homo sapiens olfactory receptor, family 11, subfamily K, member 2 pseudog
NG 004393	Homo sapiens olfactory receptor, family 10, subfamily J, member 6 pseudogo
NG 004394	Homo sapiens olfactory receptor, family 7, subfamily E, member 46 pseudog
NG_004394	Homo sapiens offactory receptor, family 7, subfamily A, member 121 pseudo
	Homo sapiens YTH domain family 1 pseudogene (YTHDF1P) on chromosom
NG_004396	Homo sapiens olfactory receptor, family 10, subfamily AH, member 1 pseudo
NG_004397	Homo sapiens olfactory receptor, family 7, subfamily E, member 59 pseudog
NG_004398	
NG_004399	Homo sapiens olfactory receptor, family 7, subfamily E, member 160 pseudo
NG_004400	Homo sapiens olfactory receptor, family 13, subfamily D, member 3 pseudog
NG_004401	Homo sapiens olfactory receptor, family 10, subfamily AE, member 3 pseudo
NG_004402	Homo sapiens olfactory receptor, family 10, subfamily AK, member 1 pseudo
NG_004403	Homo sapiens olfactory receptor, family 11, subfamily J, member 5 pseudogo
NG_004404	Homo sapiens olfactory receptor, family 11, subfamily Q, member 1 pseudog
NG_004405	Homo sapiens olfactory receptor, family 13, subfamily Z, member 1 pseudog
NG_004406	Homo sapiens olfactory receptor, family 13, subfamily Z, member 2 pseudog
NG_004407	Homo sapiens olfactory receptor, family 1, subfamily M, member 4 pseudoge
NG_004408	Homo sapiens olfactory receptor, family 2, subfamily A, member 41 pseudog
NG_004409	Homo sapiens olfactory receptor, family 2, subfamily AO, member 1 pseudoc
NG_004410	Homo sapiens olfactory receptor, family 2, subfamily BH, member 1 pseudog
NG_004411	Homo sapiens olfactory receptor, family 2, subfamily T, member 32 pseudog-
NG_004412	Homo sapiens olfactory receptor, family 2, subfamily X, member 1 pseudoge
NG_004413	Homo sapiens olfactory receptor, family 4, subfamily A, member 41 pseudog
NG_004414	Homo sapiens olfactory receptor, family 4, subfamily A, member 42 pseudog
NG_004415	Homo sapiens olfactory receptor, family 4, subfamily A, member 44 pseudog
NG_004416	Homo sapiens olfactory receptor, family 4, subfamily A, member 45 pseudog
NG_004417	Homo sapiens olfactory receptor, family 4, subfamily A, member 46 pseudog

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Homo sapiens olfactory receptor, family 4, subfamily A, member 48 pseudog
NG 004418
NG 004419
             Homo sapiens olfactory receptor, family 4, subfamily A, member 49 pseudog
             Homo sapiens olfactory receptor, family 4, subfamily A, member 50 pseudog
NG_004420
             Homo sapiens olfactory receptor, family 4, subfamily C, member 48 pseudog
NG_004421
NG 004422
             Homo sapiens olfactory receptor, family 4, subfamily C, member 49 pseudog
NG 004423
             Homo sapiens olfactory receptor, family 4, subfamily G, member 11 pseudog
NG 004424
             Homo sapiens olfactory receptor, family 51, subfamily AB, member 1 pseudo
NG_004425
             Homo sapiens olfactory receptor, family 51, subfamily B, member 8 pseudog
NG_004426
             Homo sapiens olfactory receptor, family 5, subfamily AC, member 4 pseudog
NG 004427
             Homo sapiens olfactory receptor, family 5, subfamily AO, member 1 pseudog
NG 004428
             Homo sapiens olfactory receptor, family 5, subfamily J, member 7 pseudoger
NG 004429
             Homo sapiens olfactory receptor, family 6, subfamily C, member 64 pseudog
NG 004430
             Homo sapiens olfactory receptor, family 6, subfamily C, member 66 pseudog
NG 004431
             Homo sapiens olfactory receptor, family 6, subfamily C, member 69 pseudog
NG 004432
             Homo sapiens olfactory receptor, family 6, subfamily C, member 72 pseudog
NG 004433
             Homo sapiens olfactory receptor, family 6, subfamily C, member 73 pseudog
             Homo sapiens olfactory receptor, family 6, subfamily R, member 2 pseudoge
NG 004434
NG_004435 Homo sapiens olfactory receptor, family 7, subfamily E, member 155 pseudo
NG_004436 Homo sapiens olfactory receptor, family 7, subfamily E, member 159 pseudo
NG_004437
             Homo sapiens olfactory receptor, family 7, subfamily G, member 15 pseudog
NG_004438 Homo sapiens olfactory receptor, family 7, subfamily H, member 2 pseudoge
NG_004439
             Homo sapiens olfactory receptor, family 8, subfamily A, member 3 pseudoge
NG_004440 Homo sapiens olfactory receptor, family 8, subfamily X, member 1 pseudoge
NG_004441
             Homo sapiens olfactory receptor, family 4, subfamily C, member 17 pseudog
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NG_004444
             Homo sapiens spondyloepiphyseal dysplasia, late, pseudogene (LOC414752
NG 004445
             Homo sapiens spondyloepiphyseal dysplasia, late, pseudogene (LOC414753
NG 004446
             Homo sapiens spondyloepiphyseal dysplasia, late, pseudogene 4 (SEDLP4)
NG 004625
             Homo sapiens olfactory receptor, family 2, subfamily U, member 1 pseudoge
NG 004626
             Homo sapiens olfactory receptor, family 13, subfamily I, member 1 pseudoge
NG 004627
             Homo sapiens olfactory receptor, family 1, subfamily AB, member 1 pseudog
NG_004628
             Homo sapiens olfactory receptor, family 8, subfamily G, member 7 pseudoge
NG 004629
             Homo sapiens olfactory receptor, family 7, subfamily E, member 96 pseudog
NG 004630
             Homo sapiens olfactory receptor, family 1, subfamily X, member 1 pseudoge
NG 004631
             Homo sapiens olfactory receptor, family 1, subfamily X, member 5 pseudoge
NG 004632
             Homo sapiens olfactory receptor, family 13, subfamily K, member 1 pseudog
NG 004633
             Homo sapiens olfactory receptor, family 7, subfamily E, member 157 pseudo
NG_004634
             Homo sapiens olfactory receptor, family 7, subfamily E, member 154 pseudo
NG 004635
             Homo sapiens olfactory receptor, family 8, subfamily I, member 4 pseudoger
NG 004638
             Homo sapiens glutathione S-transferase pi pseudogene (GSTPP) on chromc
NG 004639
             Homo sapiens actin, gamma pseudogene (LOC414754) on chromosome Y
NG 004652
             Homo sapiens olfactory receptor, family 2, subfamily AJ, member 1 (OR2AJ1
NG 004656
             Homo sapiens ATP synthase, H+ transporting, mitochondrial F1 complex, ga
NG 004658
             Homo sapiens MHC class III complement gene cluster, bimodular haplotype
NG 004662
             Homo sapiens PTPN13-like, Y-linked pseudogene (LOC442865) on chromos
NG 004663
             Homo sapiens PTPN13-like, Y-linked pseudogene (LOC442866) on chromos
NG 004666
             Homo sapiens olfactory receptor, family 7, subfamily E, member 31 pseudog
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NT_004321
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NT 004547
             Homo sapiens chromosome 1 genomic contig
NT 004559
             Homo sapiens chromosome 1 genomic contig
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NT_004610	Homo sapiens chromosome 1 genomic contig
NT_004668	Homo sapiens chromosome 1 genomic contig
NT_0046 7 1	Homo sapiens chromosome 1 genomic contig
NT_004686	Homo sapiens chromosome 1 genomic contig
NT_004754	Homo sapiens chromosome 1 genomic contig
NT_004836	Homo sapiens chromosome 1 genomic contig
NT_0048 7 3	Homo sapiens chromosome 1 genomic contig
NT_0050 5 8	Homo sapiens chromosome 2 genomic contig
NT_005079	Homo sapiens chromosome 2 genomic contig
NT_005120	Homo sapiens chromosome 2 genomic contig
NT_005334	Homo sapiens chromosome 2 genomic contig
NT_0054O3	Homo sapiens chromosome 2 genomic contig
NT_0054 1 6	Homo sapiens chromosome 2 genomic contig
NT_0055 3 5	Homo sapiens chromosome 3 genomic contig
NT_005612	Homo sapiens chromosome 3 genomic contig
NT_006051	Homo sapiens chromosome 4 genomic contig
NT_006081	Homo sapiens chromosome 4 genomic contig
NT_0062 1 6	Homo sapiens chromosome 4 genomic contig
NT_006238	Homo sapiens chromosome 4 genomic contig
NT 006307	Homo sapiens chromosome 4 genomic contig
NT 006316	Homo sapiens chromosome 4 genomic contig
NT 006431	Homo sapiens chromosome 5 genomic contig
NT_006576	Homo sapiens chromosome 5 genomic contig
NT 006713	Homo sapiens chromosome 5 genomic contig
NT 007299	Homo sapiens chromosome 6 genomic contig
NT_007302	Homo sapiens chromosome 6 genomic contig
NT 007422	Homo sapiens chromosome 6 genomic contig
NT 007583	Homo sapiens chromosome 6 genomic contig
NT 007592	Homo sapiens chromosome 6 genomic contig
NT_007741	Homo sapiens chromosome 7 genomic contig
NT 007758	Homo sapiens chromosome 7 genomic contig
NT 007819	Homo sapiens chromosome 7 genomic contig
NT 007914	Homo sapiens chromosome 7 genomic contig
NT_007933	Homo sapiens chromosome 7 genomic contig
NT 007995	Homo sapiens chromosome 8 genomic contig
NT 008046	Homo sapiens chromosome 8 genomic contig
NT 008127	Homo sapiens chromosome 8 genomic contig
NT_008183	Homo sapiens chromosome 8 genomic contig
NT 008251	Homo sapiens chromosome 8 genomic contig
NT 008413	Homo sapiens chromosome 9 genomic contig
NT_008470	Homo sapiens chromosome 9 genomic contig
NT 008476	Homo sapiens chromosome 9 genomic contig
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NT 008583	Homo sapiens chromosome 10 genomic contig
NT_008705	Homo sapiens chromosome 10 genomic contig
NT 008818	Homo sapiens chromosome 10 genomic contig
NT_008984	Homo sapiens chromosome 11 genomic contig
NT 009237	Homo sapiens chromosome 11 genomic contig
NT_009487	Homo sapiens chromosome 12 genomic contig
NT_009714	Homo sapiens chromosome 12 genomic contig
NT 009755	Homo sapiens chromosome 12 genomic contig
NT_009759	Homo sapiens chromosome 12 genomic contig
NT_009775	Homo sapiens chromosome 12 genomic contig
NT_009952	Homo sapiens chromosome 13 genomic contig
NT_010194	Homo sapiens chromosome 15 genomic contig
NT_010274	Homo sapiens chromosome 15 genomic contig
NT_01028O	Homo sapiens chromosome 15 genomic contig
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NT_010393	Homo sapiens chromosome 16 genomic contig
NT_010498	Homo sapiens chromosome 16 genomic contig
NT_010505	Homo sapiens chromosome 16 genomic contig
NT_010542	Homo sapiens chromosome 16 genomic contig
NT_010552	Homo sapiens chromosome 16 genomic contig
NT_010641	Homo sapiens chromosome 17 genomic contig
NT_010663	Homo sapiens chromosome 17 genomic contig
NT_010718	Homo sapiens chromosome 17 genomic contig
NT 010755	Homo sapiens chromosome 17 genomic contig
NT 010783	Homo sapiens chromosome 17 genomic contig
NT_010799	Homo sapiens chromosome 17 genomic contig
NT 010859	Homo sapiens chromosome 18 genomic contig
NT 010879	Homo sapiens chromosome 18 genomic contig
NT_010978	Homo sapiens chromosome 18 genomic contig
NT_011109	Homo sapiens chromosome 19 genomic contig
NT_011255	Homo sapiens chromosome 19 genomic contig
NT_011295	Homo sapiens chromosome 19 genomic contig
NT_011333	Homo sapiens chromosome 20 genomic contig
NT_011362	Homo sapiens chromosome 20 genomic contig
NT_011387	Homo sapiens chromosome 20 genomic contig
NT_011512	Homo sapiens chromosome 21 genomic contig
NT_011515	Homo sapiens chromosome 21 genomic contig
NT_011516	Homo sapiens chromosome 22 genomic contig
NT_011519	Homo sapiens chromosome 22 genomic contig
NT_011520	Homo sapiens chromosome 22 genomic contig
NT_011521	Homo sapiens chromosome 22 genomic contig
NT_011522	Homo sapiens chromosome 22 genomic contig
NT_011523	Homo sapiens chromosome 22 genomic contig
NT_011525	Homo sapiens chromosome 22 genomic contig
NT_011526	Homo sapiens chromosome 22 genomic contig
NT_011565	Homo sapiens chromosome X genomic contig
NT 011568	Homo sapiens chromosome X genomic contig
NT_011630	Homo sapiens chromosome X genomic contig
NT 011638	Homo sapiens chromosome X genomic contig
NT 011651	Homo sapiens chromosome X genomic contig
NT 011669	Homo sapiens chromosome X genomic contig
NT_011681	Homo sapiens chromosome X genomic contig
NT 011726	Homo sapiens chromosome X genomic contig
NT 011757	Homo sapiens chromosome X genomic contig
NT 011786	Homo sapiens chromosome X genomic contig
NT 011875	Homo sapiens chromosome Y genomic contig
NT_011878	Homo sapiens chromosome Y genomic contig
NT_011896	Homo sapiens chromosome Y genomic contig
NT_011903	Homo sapiens chromosome Y genomic contig
NT 015926	Homo sapiens chromosome 2 genomic contig
NT 016297	Homo sapiens chromosome 4 genomic contig
NT 016354	Homo sapiens chromosome 4 genomic contig
	Homo sapiens chromosome 4 genomic contig
NT_016606 NT 017696	Homo sapiens chromosome 10 genomic contig
NT_017090	Homo sapiens chromosome 10 genomic contig
_	Homo sapiens chromosome 22 genomic contig
NT_019197	Homo sapiens chromosome 22 genomic contig
NT_019273	Homo sapiens chromosome i genomic contig
NT_019501	Homo sapiens chromosome 12 genomic contig
NT_019546	
NT_019609	Homo sapiens chromosome 16 genomic contig
NT_019686	Homo sapiens chromosome X genomic contig
NT_021877	Homo sapiens chromosome 1 genomic contig

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gi|50345990|ref|NM_001001975.1|[50345990] gi|50345876|ref|NM_001001976.1|[50345876] gi|50345992|ref|NM_001001977.1|[50345992] gi|50659099|ref|NM 001001991.1|[50659099] gi|50312663|ref|NM_001001992.1|[50312663] gi|50263052|ref|NM_001001994.1|[50263052] gi|50263047|ref|NM_001001995.1|[50263047] gi|50263049|ref|NM_001001996.1|[50263049] gi|50301239|ref|NM_001001998.1|[50301239] gi|50541951|ref|NM_001002000.1|[50541951] gi|50541953|ref|NM_001002001.1|[50541953] gi|50541947|ref|NM 001002002.1|[50541947] qi|50593109|ref|NM 001002006.1|[50593109] gi[50593509]ref[NM 001002014.1][50593509] gi|50593511|ref|NM_001002015.1|[50593511] gi|50952465|ref|NM_001002017.1|[50952465] gi|50952467|ref|NM_001002018.1|[50952467] gi|50346004|ref|NM_001002021.1|[50346004] gi|50345278|ref|NM_001002026.1|[50345278] gi|50659068|ref|NM_001002027.1|[50659068] gi|50345295|ref|NM 001002029.1|[50345295] gi|50593532|ref|NM_001002031.1|[50593532] gi|50345293|ref|NM_001002032.1|[50345293] gi|50345291|ref|NM 001002033.1|[50345291] gi|50344743|ref|NM 001002035.1|[50344743] gi|50345025|ref|NM 001002036.1|[50345025] gi|50363236|ref|NM 001002231.1|[50363236] gi|50363234|ref|NM_001002232.1|[50363234] gi|50363229|ref|NM_001002233.1|[50363229] gi|50363223|ref|NM_001002234.1|[50363223] gi|50363220|ref|NM 001002235.1|[50363220] gi|50363218|ref|NM 001002236.1|[50363218] gi|50409855|ref|NM_001002243.1|[50409855] gi|50409809|ref|NM_001002244.1|[50409809] gi|50409795|ref|NM_001002245.1|[50409795] gi|50409803|ref|NM 001002246.1|[50409803] gi|50409780|ref|NM 001002247.1|[50409780] gi|50409788|ref|NM 001002248.1|[50409788] gil50409749|ref|NM 001002249.1|[50409749] gi|50409737|ref|NM 001002251.1|[50409737] gi|50409690|ref|NM_001002252.1|[50409690] gi|50400080|ref|NM_001002255.1|[50400080] gi|50659071|ref|NM_001002256.1|[50659071] gi|50659058|ref|NM_001002257.1|[50659058] gi|50659073|ref|NM_001002258.1|[50659073] gi|50428932|ref|NM_001002259.1|[50428932] gi|50428926|ref|NM 001002260.1|[50428926] gi|50557645|ref|NM_001002261.1|[50557645] gi|50557647|ref|NM_001002262.1|[50557647] gi|50428916|ref|NM_001002264.1|[50428916] gi|50539411|ref|NM 001002265.1|[50539411] gi|50539413|ref|NM_001002266.1|[50539413] gi|50511938|ref|NM_001002269.1|[50511938] gi|50511931|ref|NM_001002273.1|[50511931] gi|50511925|ref|NM_001002274.1|[50511925] gi|50511927|ref|NM 001002275.1|[50511927] gi|50541962|ref|NM_001002292.1|[50541962]

gi|50541960|ref|NM 001002294.1|[50541960] gi|50541958|ref|NM 001002295.1|[50541958] gi|50541945|ref|NM 001002296.1|[50541945] gi|50593020|ref|NM_001002755.1|[50593020] gi|50593022|ref|NM 001002756.1|[50593022] gi|50593018|ref|NM 001002757.1|[50593018] gi[50959166|ref|NM 001002758.1|[50959166] gi[50593525|ref|NM 001002759.1|[50593525] gi|50959134|ref|NM_001002760.1|[50959134] gi|50959142|ref|NM_001002761.1|[50959142] gi|50593536|ref|NM_001002762.1|[50593536] gi|50582995|ref|NM_001002796.1|[50582995] gi|50658066|ref|NM_001002799.1|[50658066] gi|50658062|ref|NM_001002800.1|[50658062] gi[50658076]ref[NM 001002810.1][50658076] gi|50658070|ref|NM_001002811.1|[50658070] gi|50658068|ref|NM_001002812.1|[50658068] gi|50659103|ref|NM_001002814.1|[50659103] gi|50878274|ref|NM_001002836.1|[50878274] gi|50726959|ref|NM 001002837.1|[50726959] gi|50845415|ref|NM 001002838.1|[50845415] gi|50726988|ref|NM_001002840.1|[50726988] gi|50845427|ref|NM_001002841.1|[50845427] gi|50811872|ref|NM_001002843.1|[50811872] gi|50811874|ref|NM 001002844.1|[50811874] gi|50811876|ref|NM_001002845.1|[50811876] gi|50811882|ref|NM_001002847.1|[50811882] gi|50845400|ref|NM_001002848.1|[50845400] gi|50845404|ref|NM_001002849.1|[50845404] gl|50845385|ref|NM_001002857.1|[50845385] gi|50845387|ref|NM 001002858.1|[50845387] gil50843834|ref|NM 001002860.1|[50843834] gi[50959183|ref|NM 001002861.1|[50959183] gi|50845410|ref|NM_001002862.1|[50845410] gi|50845413|ref|NM_001002876.1|[50845413] gi|50959101|ref|NM_001002877.1|[50959101] gi|50959109|ref|NM_001002878.1|[50959109] gi|50959114|ref|NM_001002879.1|[50959114] gi|50959131|ref|NM_001002880.1|[50959131] gi|50881949|ref|NM_001002881.1|[50881949] gi|50878301|ref|NM_001002901.1|[50878301] gi|50897297|ref|NM 001002905.1|[50897297] gi|51093877|ref|NM_001002906.1|[51093877] gi|50897269|ref|NM_001002907.1|[50897269] gi|50962881|ref|NM 001002909.1|[50962881] gi|50897271|ref|NM 001002910.1|[50897271] gi|50897277|ref|NM 001002911.1|[50897277] gi|50897283|ref|NM_001002913.1|[50897283] gi|51036593|ref|NM_001002914.1|[51036593] gi|50897279|ref|NM 001002915.1|[50897279] qij50897287|ref|NM 001002916.1|[50897287] gi|50897281|ref|NM_001002917.1|[50897281] gi|50897291|ref|NM_001002918.1|[50897291] gi|50897285|ref|NM_001002919.1|[50897285] qi|50897293|ref|NM_001002920.1|[50897293] gi|51092298|ref|NM_001002921.1|[51092298] gi|50897289|ref|NM 001002922.1|[50897289]

gi|50897295|ref|NM_001002923.1|[50897295] gi|50959221|ref|NM_001002924.1|[50959221] gi|50979289|ref|NM_001002925.1|[50979289] gij50962816|ref|NM 001002926.1|[50962816] gi|51093829|ref|NM 001003398.1|[51093829] gi|50979287|ref|NM_001003399.1|[50979287] gi|51093858|ref|NM_001003406.1|[51093858] gi|51011128|ref|NM_001003443.1|[51011128] gi|51093852|ref|NM_001003656.1|[51093852] gi|51092269|ref|NM_001003665.1|[51092269] gi|51093707|ref|NM 001003674.1|[51093707] gi|51093709|ref|NM_001003675.1|[51093709] gi|51093378|ref|NM_001003679.1|[51093378] gi|51093380|ref|NM 001003680.1|[51093380] gi|46488942|ref|NM 001079.3|[46488942] gi|27477067|ref|NM_001132.1|[27477067] gi|26667190|ref|NM_001222.2|[26667190] gi|19115953|ref|NM_001369.1|[19115953] gi|33350931|ref|NM_001376.2|[33350931] gi|24307878|ref|NM_001378.1|[24307878] gi|46195706|ref|NM_001410.1|[46195706] gi|34222091|ref|NM_001547.3|[34222091] gi|41352711|ref|NM_001556.1|[41352711] gi|27764862|ref|NM_001636.1|[27764862] gi|27764864|ref|NM 001763.1|[27764864] gi|26105977|ref|NM_001810.4|[26105977] gi|31711991|ref|NM_001931.2|[31711991] gi|38348231|ref|NM_001947.1|[38348231] gi|33413399|ref|NM_001984.1|[33413399] gi|24307882|ref|NM_001986.1|[24307882] gi|38327038|ref|NM_002154.3|[38327038] gi|34222089|ref|NM_002242.2|[34222089] gi|28827775|ref|NM_002348.1|[28827775] gi|27502374|ref|NM_002399.2|[27502374] gi|23111004|ref|NM_002404.1|[23111004] gi|27764860|ref|NM_002471.1|[27764860] gi|23510390|ref|NM_002498.1|[23510390] ai|28195383|ref|NM 002523.1|[28195383] gi|47078228|ref|NM 002596.2|[47078228] gl|24429565|ref|NM 002603.1|[24429565] gi|24429563|ref|NM_002604.1|[24429563] gi|47132535|ref|NM_002605.2|[47132535] gi|33300667|ref|NM_002679.1|[33300667] gi|38257138|ref|NM_002735.1|[38257138] gi|38257140|ref|NM_002746.1|[38257140] gi|23110943|ref|NM_002791.1|[23110943] gi|23110924|ref|NM_002798.1|[23110924] gi|37574611|ref|NM_002972.1|[37574611] gi|28076868|ref|NM_002974.1|[28076868] gi|40548377|ref|NM_002998.2|[40548377] gi|48475051|ref|NM_003013.1|[48475051] gi|27777631|ref|NM_003047.2|[27777631] gi|29826338|ref|NM_003106.2|[29826338] gi|38373692|ref|NM_003111.1|[38373692] gi|27764866|ref|NM_003179.1|[27764866] gi|41350334|ref|NM_003196.1|[41350334] gi|27777635|ref|NM_003200.1|[27777635]

gi|23308730|ref|NM_003302.1|[23308730] gi|23308728|ref|NM_003415.1|[23308728] gi|38564321|ref|NM_003444.1|[38564321] gi|31083149|ref|NM_003502.2|[31083149] gi|27436923|ref|NM_003517.2|[27436923] gi|31657108|ref|NM_003575.1|[31657108] gi|20070102|ref|NM_003598.1|[20070102] gi|49170033|ref|NM_003638.1|[49170033] gi|41872688|ref|NM_003660.2|[41872688] gi|27501445|ref|NM_003677.2|[27501445] gi|50053005|ref|NM_003700.1|[50053005] gi|26006850|ref|NM_003719.1|[26006850] gi|22208998|ref|NM_003724.1|[22208998] gi|30089979|ref|NM_003741.2|[30089979] gi|34335255|ref|NM_003817.1|[34335255] gi|22035625|ref|NM 003818,2|[22035625] gi|28872760|ref|NM 003828.1|[28872760] gi|28827773|ref|NM_003845.1|[28827773] gi|29788999|ref|NM_003848.1|[29788999] gi|38176157|ref|NM_003858.2|[38176157] gi|26190607|ref|NM_003898.1|[26190607] gi|33667022|ref|NM_003907.1|[33667022] gi|27501463|ref|NM_003957.1|[27501463] gi|48762941|ref|NM_003959.1|[48762941] gi|50345994|ref|NM_003972.2|[50345994] gi|22027631|ref|NM_004080.1|[22027631] gi|45598368|ref|NM_004097.1|[45598368] gi|34304365|ref|NM_004118.3|[34304365] gi|41352692|ref|NM_004136.1|[41352692] gi|38570145|ref|NM_004200.2|[38570145] gi|32698677|ref|NM_004220.1|[32698677] gi|32698673|ref|NM_004241.1|[32698673] gi|23238229|ref|NM_004242.2|[23238229] gi|46488922|ref|NM_004319.1|[46488922] gi|32967316|ref|NM_004439.3|[32967316] gl|24307886|ref|NM_004498.1|[24307886] gi|42415470|ref|NM_004650.1|[42415470] gi|37537693|ref|NM_004685.2|[37537693] gi|34335257|ref|NM_004691.3|[34335257] gi|34222090|ref|NM_004764.2|[34222090] gi|22094078|ref|NM_004773.1|[22094078] gi|37674229|ref|NM_004816.2|[37674229] gi|47078220|ref|NM 004840.2|[47078220] gi|50593006|ref|NM_004884.2|[50593006] gi|31377467|ref|NM_004946.1|[31377467] gi|40254811|ref|NM_004947,2|[40254811] gi|19718754|ref|NM_005054.1|[19718754] gi|15812217|ref|NM_005105.2|[15812217] gi|40254809|ref|NM_005126.2|[40254809] gi|42718010|ref|NM_005140.1|[42718010] gi|22547203|ref|NM_005144.2|[22547203] gi|24307888|ref|NM_005153,1|[24307888] gi|32964829|ref|NM_005202.1|[32964829] gi|20270187|ref|NM_005240.1|[20270187] gi|29789001|ref|NM_005241.1|[29789001] gi|22779859|ref|NM_005250.1|[22779859] gi|22027523|ref|NM_005272.2|[22027523]

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gi|50263051|ref|NM 005278,3|[50263051] gi|42560226|ref|NM_005349.2|[42560226] qi|34147322|ref|NM_005376.2||34147322| gi|49087131|ref|NM_005407.1|[49087131] gi|23199982|ref|NM_005482.1|[23199982] gi|29788789|ref|NM_005487.2|[29788789] gi|34147320|ref|NM_005533.2|[34147320] gi|38788415|ref|NM_005559.2|[38788415] gi|30840979|ref|NM 005595.1|[30840979] gi|31652243|ref|NM_005650.1|[31652243] gi|33667050|ref|NM_005669.3|[33667050] gi|21536364|ref|NM_005680.1|[21536364] gi|24307898|ref|NM_005702.1|[24307898] gi|22027540|ref|NM_005707.1|[22027540] gl|32698675|ref|NM_005779.1|[32698675] gi|44771197|ref|NM_005788.1|[44771197] gi|31317304|ref|NM_005791.1|[31317304] gi|27501451|ref|NM_005840.1|[27501451] gi|40538725|ref|NM 005841.1|[40538725] gi|39930312|ref|NM 005848.1|[39930312] gi|33469918|ref|NM_005914.2|[33469918] gi|22027533|ref|NM_005942.1|[22027533] gi|22027535|ref|NM_005943.2|[22027535] gi|28866959|ref|NM_005946.1|[28866959] gi|27414494|ref|NM_005947.1|[27414494] gi|28866946|ref|NM_005949.1|[28866946] gi|41406063|ref|NM_005964.1|[41406063] gi|21389314|ref|NM_005984.1|[21389314] gi|32567783|ref|NM_005995.2|[32567783] gi|49457785|ref|NM_006036.1|[49457785] gi|48427666|ref|NM_006040.1|[48427666] gi|50052980|ref|NM_006062.1|[50052980] gi|24307902|ref|NM_006091.1|[24307902] gi|24307904|ref|NM_006108.1|[24307904] gi|27262631|ref|NM_006133.1|[27262631] gi|40549417|ref|NM_006151.1|[40549417] gi|38257154|ref|NM_006154.1|[38257154] gi|23510318|ref|NM_006172.1|[23510318] gi|46049091|ref|NM_006175.3|[46049091] gi|33354284|ref|NM_006210.1|[33354284] gi|34147323|ref|NM_006216.2|[34147323] gi|47834321|ref|NM_006266.2|[47834321] gi|22325384|ref|NM_006277.1|[22325384] gi|17388802|ref|NM 006452,2|[17388802] gi|37537515|ref|NM 006524,1|[37537515] gi|38492355|ref|NM 006591.1|[38492355] gi|38176299|ref|NM_006617.1|[38176299] gi|24307912|ref|NM_006630.1|[24307912] gi|37622348|ref|NM_006631.2|[37622348] gi|46361971|ref|NM_006635.2|[46361971] gi|28269671|ref|NM_006642.1|[28269671] gi|41393186|ref|NM_006647.1|[41393186] gi|47078221|ref|NM_006673.2|[47078221] gi|34147321|ref|NM_006714.2|[34147321] gi|38156700|ref|NM_006722.1|[38156700] gi|27901802|ref|NM 006742.1|[27901802] gi|45827705|ref|NM_006775.1|[45827705]

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gi|24307916|ref|NM_006828.1|[24307916] gi|29789005|ref|NM_006832.1|[29789005] gi|24307918|ref|NM_006857.1|[24307918] gi|37577165|ref|NM_006859.2|[37577165] gi|24497546|ref|NM_006897.1|[24497546] gi|38505169|ref|NM_006909.1|[38505169] gi|24307922|ref|NM_006916.1|[24307922] gi|29893558|ref|NM_006920.2|[29893558] gi|39930603|ref|NM 006939.1|[39930603] gi|24307874|ref|NM_006955.1|[24307874] gi|50512287|ref|NM_006956.1|[50512287] gi|42734301|ref|NM_006959.1|[42734301] gi|38045955|ref|NM_006961.2|[38045955] gi|46195704|ref|NM_006969.1|[46195704] gi|24307924|ref|NM_006973.1|[24307924] gi|28274681|ref|NM_006974.1|[28274681] gi|27734718|ref|NM_006996.1|[27734718] gi|42734307|ref|NM_007001.1|[42734307] gi|38569504|ref|NM 007010.2|[38569504] gi|50345874|ref|NM_007041.2|[50345874] gi|45592958|ref|NM 007078.1|[45592958] gi|23510456|ref|NM_007130.1|[23510456] gi|41152069|ref|NM_007131.2|[41152069] gi|24307936|ref|NM_007135.1|[24307936] gi|46559734|ref|NM_007137.1|[46559734] gi|37537683|ref|NM_007139.2|[37537683] gi|24307934|ref|NM_007149.1|[24307934] gi|42476268|ref|NM_007156.2|[42476268] gi|48675875|ref|NM_007157.2|[48675875] gi|24307932|ref|NM_007162.1|[24307932] gi|32698687|ref|NM_007174.1|[32698687] gi|27881505|ref|NM_007189.1|[27881505] gi|39930314|ref|NM_007224.1|[39930314] gi|27754211|ref|NM_007225.1|[27754211] gi|25282390|ref|NM_007243.1|[25282390] gi|33667071|ref|NM_007261.1|[33667071] gi|33469984|ref|NM_007270.2|[33469984] gi|38148698|ref|NM_007277.3|[38148698] gi|24307928|ref|NM_007280.1|[24307928] gi|40804749|ref|NM_007349.2|[40804749] gi|46276865|ref|NM_007356.1|[46276865] gi|34147324|ref|NM_012073.2|[34147324] gi|29171733|ref|NM_012154.2|[29171733] ai|30061488|ref|NM_012156.2|[30061488] gi|30089921|ref|NM_012167.1|[30089921] gi|30795120|ref|NM_012174.1|[30795120] gi|45580705|ref|NM_012184.3|[45580705] gi|34222094|ref|NM_012212.2|[34222094] gi|41872672|ref|NM_012224.1|[41872672] gi|42734429|ref|NM_012232.2|[42734429] gi|24307942|ref|NM_012235.1|[24307942] gi|30410776|ref|NM_012271.1|[30410776] gi|29789007|ref|NM_012272.1|[29789007] gi|38569492|ref|NM_012284.1|[38569492] gi|47834347|ref|NM_012292.2|[47834347] gi|27477040|ref|NM_012305.1|[27477040] gi|19743793|ref|NM_012309.1|[19743793]

gi|29366811|ref|NM_012315.1|[29366811] gi|27544940|ref|NM_012335.2|[27544940] gi|46048142|ref|NM 012363.1|[46048142] gi|50052933|ref|NM 012364.1|[50052933] gi|45504385|ref|NM_012367.1|[45504385] gi|50897263|ref|NM_012374.1|[50897263] gi|28570169|ref|NM_012378.1|[28570169] gi|31657128|ref|NM_012393.1|[31657128] gi|31317308|ref|NM_012398.1|[31317308] gi|45331212|ref|NM_012416,1|[45331212] gi|24430130|ref|NM_012477.2|[24430130] gi|24430131|ref|NM_012478.2|[24430131] gi|24307962|ref|NM_013304.1|[24307962] gi|23943857|ref|NM_013321.1|[23943857] gi|32698691|ref|NM_013373.1|[32698691] gi|46488914|ref|NM_014010.3|[46488914] gi|40217846|ref|NM_014014.2|[40217846] gi|34147338|ref|NM_014089.2|[34147338] gi|32483376|ref|NM 014098,21[32483376] gi|31657139|ref|NM_014215.1|[31657139] gi|21265100|ref|NM_014220.1|[21265100] gi|23943853|ref|NM_014224.1|[23943853] gi|21265036|ref|NM_014243.1|[21265036] gi|29789055|ref|NM_014261.1|[29789055] gi|24307946|ref|NM_014282.1|[24307946] gi|24307948|ref|NM_014284.1|[24307948] gi|24307950|ref|NM_014290.1|[24307950] gi|24307952|ref|NM_014301.1|[24307952] gi|22507408|ref|NM_014346.1|[22507408] gi|24307954|ref|NM_014376.1|[24307954] gi|7657336|ref|NM_014381.1|[7657336] gi|24415382|ref|NM_014389.1|[24415382] gi|50726958|ref|NM_014422.2|[50726958] gi|30794501|ref|NM_014435.1|[30794501] gi|23943855|ref|NM_014441.1|[23943855] gi|33859667|ref|NM_014455.1|[33859667] gi|46048172|ref|NM_014460.2|[46048172] gi|50593521|ref|NM_014472.3|[50593521] gi|21702741|ref|NM_014494.1|[21702741] gi|27477044|ref|NM_014507.1|[27477044] gi|22907038|ref|NM_014508.2|[22907038] gi|50726962|ref|NM_014510.1|[50726962] gi|27436930|ref|NM_014562.2|[27436930] gi|32698685|ref|NM_014568.1|[32698685] gi|18959199|ref|NM_014572.1|[18959199] gi|32698695|ref|NM_014573.1|[32698695] gi|30794503|ref|NM_014594.1|[30794503] gi|23943911|ref|NM_014602.1|[23943911] gi|32698689|ref|NM_014603.1|[32698689] gi|34222095|ref|NM_014607.2|[34222095] gi|24307968|ref|NM_014608.1|[24307968] gi|24415403|ref|NM_014611.1|[24415403] gi|24797105|ref|NM_014613.1|[24797105] gi|40788002|ref|NM_014614.1|[40788002] gi|44955925|ref|NM_014615.1|[44955925] gi|34878694|ref|NM 014647.1|[34878694] gi|45237192|ref|NM_014655.1|[45237192]

gi|24307960|ref|NM 014657.1|[24307960] gi|42734311|ref|NM_014667.1|[42734311] gi|38788371|ref|NM_014691.1|[38788371] gi|31317300|ref|NM_014697.1|[31317300] gi|45120116|ref|NM 014701.1|[45120116] gi|24307972|ref|NM_014756.1|[24307972] gi|40538727|ref|NM_014798.1|[40538727] gi|29789059|ref|NM 014802.1|[29789059] gi|38201615|ref|NM_014836.3|[38201615] gi|45827807|ref|NM_014839.3|[45827807] gi|24307966|ref|NM 014850.1|[24307966] gi|33469146|ref|NM 014854.1|[33469146] gi|28372520|ref|NM 014858.1|[28372520] gi|42734318|ref|NM_014881.2|[42734318] gi|38490530|ref|NM_014884.1|[38490530] gi|19913345|ref|NM_014919.1|[19913345] gi|42542404|ref|NM_014955.1|[42542404] gi|50345869|ref|NM_014957.2|[50345869] gi|44888817|ref|NM_014974.1|[44888817] gi|45120118|ref|NM 014975.1|[45120118] gi|21902518|ref|NM_014982.1|[21902518] gi|41054863|ref|NM 014989.2|[41054863] gi|31317271|ref|NM 014991.3|[31317271] gi|21071076|ref|NM 014992.1|[21071076] gi|44917618|ref|NM_014997.1|[44917618] gi|24307970|ref|NM_015000.1|[24307970] gi|39725632|ref|NM_015004.2|[39725632] gi|39930342|ref|NM_015008.1|[39930342] gi|30794499|ref|NM_015013.1|[30794499] gi|38016126|ref|NM 015014.1|[38016126] gi|45504379|ref|NM 015015.1|[45504379] gi|42516566|ref|NM_015017.3|[42516566] gi|34577117|ref|NM_015018.2|[34577117] gi|30061508|ref|NM_015022.2|[30061508] gi|39930344|ref|NM_015027.1|[39930344] gi|23097291|ref|NM_015029.1|[23097291] gi|38524621|ref|NM_015033.1|[38524621] gi|40317630|ref|NM_015035.2|[40317630] gi|42734322|ref|NM 015037.1|[42734322] gi|25141321|ref|NM 015039.2|[25141321] gi|50881947|ref|NM_015040.2|[50881947] gi|42734324|ref|NM_015045.1|[42734324] gi|22095330|ref|NM_015047.1|[22095330] gi|24307982|ref|NM_015050.1|[24307982] gi|24307992|ref|NM_015052.1|[24307992] gi|30911100|ref|NM_015055.1|[30911100] gi|22035664|ref|NM 015059.1|[22035664] gi|24307986|ref|NM 015061.1|[24307986] gi|21359817|ref|NM_015065.1|[21359817] gi|25777691|ref|NM_015066.1|[25777691] gi|46359074|ref|NM_015069.2|[46359074] gi|49355783|ref|NM_015076.3|[49355783] gi|31742504|ref|NM_015078.2|[31742504] gi|40018619|ref|NM_015079.2|[40018619] gi|46309460|ref|NM_015085.2|[46309460] gi|40806197|ref|NM 015087.3|[40806197] gi|24307990|ref|NM_015089.1|[24307990]

gi|44888819|ref|NM_015091.1|[44888819] gi|31657120|ref|NM_015094.1|[31657120] gi|29826340|ref|NM_015099.2|[29826340] gi|46397389|ref|NM_015100.2|[46397389] gi|34304361|ref|NM_015102.2|[34304361] gi|28933450|ref|NM_015103.1|[28933450] gi|24307994|ref|NM_015106.1|[24307994] gi|32698699|ref|NM_015107.1|[32698699] gi|24850455|ref|NM_015110.1|[24850455] gi|32698693|ref|NM_015115.1|[32698693] gi|33859669|ref|NM 015116.1|[33859669] gi|30794493|ref|NM_015117.1|[30794493] gi|27436958|ref|NM_015120.2|[27436958] gi|29789053|ref|NM_015122.1|[29789053] gi|50980306|ref|NM_015134.2|[50980306] gi|34222098|ref|NM_015138.2|[34222098] gi|34222096|ref|NM_015141.2|[34222096] gi|24308008|ref|NM_015143.1|[24308008] gi|21735418|ref|NM 015144,1|[21735418] gi|41872576|ref|NM_015150.1|[41872576] gi|45827691|ref|NM_015151.2|[45827691] gi|38424072|ref|NM_015157.1|[38424072] gi|23510374|ref|NM_015158.1|[23510374] gi|24308012|ref|NM_015160.1|[24308012] gi|24308006|ref|NM_015161.1|[24308006] gi|23943859|ref|NM_015167.1|[23943859] gi|29789063|ref|NM_015170.1|[29789063] gi|46049062|ref|NM_015171.1|[46049062] gi|38016902|ref|NM_015172.2|[38016902] gi[50658060|ref[NM_015173.2|[50658060] gi|34222099|ref|NM_015184.2|[34222099] gi|39930348|ref|NM_015187.1|[39930348] gi|33667083|ref|NM_015190.3|[33667083] gi|38569459|ref|NM_015191.1|[38569459] gi|31581523|ref|NM_015198.2|[31581523] gi|46195712|ref|NM_015199.1|[46195712] gi|22094120|ref|NM_015200.1|[22094120] gi|40353770|ref|NM_015201.3|[40353770] gl]45433544|ref|NM_015203.2|[45433544] gi|47271353|ref|NM_015210.1|[47271353] gi|44889474|ref|NM_015213.2|[44889474] gi|24308034|ref|NM_015219.1|[24308034] gi|39930350|ref|NM_015221.1|[39930350] gi|40254858|ref|NM_015229.2|[40254858] gi|44771172|ref|NM_015234.3|[44771172] gi[29789057]ref[NM_015238.1][29789057] gi|35493724|ref|NM_015243.2|[35493724] gi|38683796|ref|NM_015245.1|[38683796] gi|44917607|ref|NM_015246.1|[44917607] gi|21735416|ref|NM_015250.1|[21735416] gi|44771179|ref|NM_015252.2|[44771179] gi|27597060|ref|NM_015255.1|[27597060] gi|46255054|ref|NM_015259.3|[46255054] gi|45356150|ref|NM_015261.1|[45356150] gi]19745147[ref|NM_015263.1[[19745147] gi|38016201|ref|NM_015265.1|[38016201] gi|41872702|ref|NM_015266.1|[41872702]

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gi|45433494|ref|NM_020809.1|[45433494] gi|50845423|ref|NM_020810.1|[50845423] gi|40217610|ref|NM_020812.1|[40217610] gi|32698737|ref|NM_020813.1|[32698737] gi|40385863|ref|NM 020816.1][40385863] gi|24308222|ref|NM 020817.1|[24308222] gil40068514|refINM 020818.1)[40068514] gi|34452731|ref|NM 020820.2|[34452731] gi|50345878|ref|NM_020824.2|[50345878] gi|46195728|ref|NM_020825.1|[46195728] gi|24308232|ref|NM_020826.1|[24308232] gi|22094124|ref|NM_020828.1|[22094124] gi|24308226|ref|NM_020832.1|[24308226] gi|29789117|ref|NM_020834.1|[29789117] gi|21314694|ref|NM_020839.2|[21314694] gi|45237201|ref|NM 020844.1|[45237201] gi|24308236|ref|NM_020845.1|[24308236] gi|21702732|ref|NM_020847.1|[21702732] gi|40538735|ref|NM_020850.1|[40538735] gi|39930400|ref|NM_020851.1|[39930400] gi|24475647|ref|NM 020854.2|[24475647] gi|24308230|ref|NM 020856.1|[24308230] gi|24234728|ref|NM_020858.1|[24234728] gi|18699721|ref|NM_020859.1|[18699721] gi|21070998|ref|NM_020860.1|[21070998] gi|24308240|ref|NM_020861.1|[24308240] gi|46487910|ref|NM_020863.2|[46487910] gi|22325365|ref|NM_020867.1|[22325365] gi|24308234|ref|NM_020868.1|[24308234] gi|32698739|ref|NM_020870.1|[32698739] gi|40068043|ref|NM 020871.2|[40068043] gi|34222384|ref|NM_020873.3|[34222384] gi|45827745|ref|NM_020875.1|[45827745] gi|40254939|ref|NM 020880.2|[40254939] gi|44917609|ref|NM_020882.1|[44917609] gi|30842828|ref|NM_020889.1|[30842828] gi|24308238|ref|NM_020890.1|[24308238] gi|24308252|ref|NM_020892.1|[24308252] gi|34147343|ref|NM_020895.2|[34147343] gi|38327036|ref|NM_020897.1|[38327036] gi|34222119|ref|NM_020899.2|[34222119] gi|50233871|ref|NM_020914.2|[50233871] gi|40254942|ref|NM_020918.2|[40254942] gi|50845417|ref|NM_020922.2|[50845417] gi|32698741|ref|NM_020925.1|[32698741] gi|21071035|ref|NM_020926.2|[21071035] qi|24308256|ref|NM 020927.1|[24308256] gi|20143481|ref|NM_020932.1|[20143481] gi|32698743|ref|NM_020935.1|[32698743] gi|41327778|ref|NM_020936.1|[41327778] gi|25141322|ref|NM_020939.1|[25141322] gi|27413907|ref|NM_020944.2|[27413907] gi|38327643|ref|NM_020947.2|[38327643] gi|24308260|ref|NM_020948.1|[24308260] gi|24308254|ref|NM_020951.1|[24308254] gi|45935356|ref|NM_020952.2|[45935356] gi|39930394|ref|NM_020954.1|[39930394]

gi|34147341|ref|NM_020961.2|[34147341] gi|19882240|ref|NM_020962.1|[19882240] gi|46195732|ref|NM 020964.1|[46195732] gi|29568112|ref|NM_020965.2|[29568112] gil42734346|ref|NM 020970.1|[42734346] gi|40353203|ref|NM 020971.1|[40353203] gi|48949814|ref|NM 021006.4|[48949814] gi|34304116|ref|NM 021009.2|[34304116] gi|28626520|ref|NM_021035.1|[28626520] gi|23346635|ref|NM_021044.2|[23346635] gi|32698747|ref|NM_021045.1|[32698747] gi|31742502|ref|NM_021059.2|[31742502] gi|45387946|ref|NM_021061.1|[45387946] gi|32698745|ref|NM_021072.1|[32698745] gi|20304090|ref|NM_021088.1|[20304090] gi|33438574|ref|NM_021089.1|[33438574] gi|31083192|ref|NM_021116.1|[31083192] gi|29789121|ref|NM_021117.1|[29789121] gi|33667024|ref|NM_021143.1|[33667024] gi|40538737|ref|NM 021148.1|[40538737] gi|23510452|ref|NM_021149.2|[23510452] gi|33469959|ref|NM_021164.2|[33469959] gi|23943865|ref|NM_021165.1|[23943865] gi|38049006|ref|NM_021180.2|[38049006] gi|39930398|ref|NM 021202.1|[39930398] gi|33438585|ref|NM_021217.1|[33438585] gi|24308268|ref|NM_021218.1|[24308268] gi|24308262|ref|NM_021222.1|[24308262] gi|31377724|ref|NM_021224.2|[31377724] gi|40548405|ref|NM_021227.2|[40548405] gi|32698749|ref|NM 021228.1|[32698749] gil46370091|ref|NM 021237.3|[46370091] gi|32895366|ref|NM 021250.2|[32895366] gi|30795179|ref|NM 021260.1|[30795179] gi|39930402|ref|NM_021636.1|[39930402] gi|48675828|ref|NM_021649.3|[48675828] gi|41281598|ref|NM_021652.1|[41281598] gi|50512285|ref|NM_021915.1|[50512285] gi|31340618|ref|NM_021916.2|[31340618] gi[23097300|ref|NM_021936.1|[23097300] gi|39725642|ref|NM_021937.2|[39725642] gi|21630256|ref|NM_022045.2|[21630256] gi|32455257|ref|NM_022075.2|[32455257] gi|44917605|ref|NM_022080.1|[44917605] gi|42794774|ref|NM_022085.3|[42794774] gi|27501457|ref|NM_022092.1|[27501457] gi[32698751|ref[NM_022106.1|[32698751] gi|46048067|ref|NM 022115.2|[46048067] gi|24308276|ref|NM_022138.1|[24308276] gi|46195736|ref|NM_022160.1|[46195736] gi|28269692|ref|NM 022166.1|[28269692] gi|31377716|ref|NM_022351.2|[31377716] gi|20143972|ref|NM_022475.1|[20143972] gi|32880205|ref|NM_022478.2|[32880205] gi|22538494|ref|NM_022479.1|[22538494] gil48093064|ref|NM 022486.3|[48093064] gi|42734348|ref|NM 022491.1|[42734348]

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gi|39725643|ref|NM 022572.2|[39725643]

gi|23943871|ref|NM 022733.1|[23943871] gi|32171243|ref|NM_022742.2|[32171243] gi|48976052|ref|NM_022745.2|[48976052] gi|40255224|ref|NM_022757.3|[40255224] gi|45238579|ref|NM_022824.1|[45238579] gi|51093862|ref|NM_022833.2|[51093862] gi|45237196|ref|NM_022835.1|[45237196] gi|28875781|ref|NM_022913.1|[28875781] gi[30794471|ref|NM_023002.1|[30794471] gi|20302140|ref|NM_023006.1|[20302140] gi|50897299|ref|NM_023939.3|[50897299] gi|45387950|ref|NM_023943.1|[45387950] gi|36054140|ref|NM_024007.2|[36054140] gi[31340581|ref|NM 024019.2|[31340581] gi|37674208|ref|NM_024100.2|[37674208] gi|24308288|ref|NM_024316.1|[24308288] gi|42544240|ref|NM_024335.2|[42544240] gi|39930458|ref|NM_024336.1|[39930458] gi|25121937|ref|NM_024342.1|[25121937] gi|27765071|ref|NM_024344.1][27765071] gi|23943919|ref|NM_024420.1|[23943919] gi|24308296|ref|NM_024493.1|[24308296] gi|38327635|ref|NM_024496.2|[38327635] gi|39725710|ref|NM_024511.3|[39725710] gi|24797090|ref|NM_024517.1|[24797090] gi|33469927|ref|NM_024553.2|[33469927] gi|22003857|ref|NM_024621.1|[22003857] gi]27477137|ref|NM_024625.3|[27477137] gi|34328078|ref|NM_024684.2|[34328078] gi|28875783|ref|NM_024742.1|[28875783] gi|41393588|ref|NM_024769.2|[41393588] gi|47578114|ref|NM_024870.2|[47578114] gil39653320|ref|NM_024878.1|[39653320] gi|46358069|ref|NM_024933.2|[46358069] gi|38679913|ref|NM_024953.2|[38679913] gi|47716684|ref|NM_025169.1|[47716684] gi|37059725|ref|NM_025196.2|[37059725] gi|34147386|ref|NM_025202.2|[34147386] gi|45504381|ref|NM_025219.1|[45504381] gi|47679079|ref|NM_025224.1|[47679079] gi|45592956|ref|NM_025248.1|[45592956] gi[47132517|ref|NM_025252.3|[47132517] gi|18426878|ref|NM_025256.4|[18426878] gi|33859754|ref|NM_030625.1|[33859754] gi|32698754|ref|NM_030627.1|[32698754] gi|44771200|ref|NM_030628.1|[44771200] gi|29789254|ref|NM_030629.1|[29789254] gi|29825822|ref|NM_030630.1|[29825822] gi|30794213|ref|NM_030633.1|[30794213] gi|24308298|ref|NM_030634.1|[24308298] gi|24308300|ref|NM_030636.1|[24308300] gi|45120112|ref|NM 030637.1|[45120112] gi|39930462|ref|NM_030639.1|[39930462] gi|38372910|ref|NM_030640.1|[38372910] gi|22035641|ref|NM_030644.1|[22035641] gi|24308302|ref|NM_030645.1|[24308302]

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gi 45505160 rei iNivi_205833,7 [45505168]	
	ูยและอบอาจอุทยแทพ <u>_</u> ∠ขององ, กุเลของอาจิสิ

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gi|47777760|ref|NM 205834.2|[47777760] gi|47777678|ref|NM_205835.2|[47777678] gi|45545408|ref|NM_205836.1|[45545408] gi|45505160|ref|NM_205837.1|[45505160] gi|45505156|ref|NM_205838.1|[45505156] gi|45580739|ref|NM_205839.1|[45580739] gi|45580735|ref|NM_205840.1|[45580735] gi|45505158|ref|NM_205841.1|[45505158] gi|45545410|ref|NM_205842.1|[45545410] gi|45505150|ref|NM_205843.1|[45505150] gi|45446744|ref|NM_205845.1|[45446744] gi|45593131|ref|NM_205846.1|[45593131] qi|45447089|ref|NM_205847.1|[45447089] gi|45504375|ref|NM_205848.1|[45504375] gi|45504370|ref|NM_205849.1|[45504370] gi|45504368|ref|NM_205850.1|[45504368] gi|45504360|ref|NM_205852.1|[45504360] gi|45504354|ref|NM 205853.1|[45504354] gi|45504356|ref|NM_205854.1|[45504356] gi|45504350|ref|NM_205855.1|[45504350] gi|45504352|ref|NM_205856.1|[45504352] gi|45504347|ref|NM_205857.1|[45504347] gi|45505144|ref|NM_205858.1|[45505144] gi|45504345|ref|NM_205859.1|[45504345] gi|45545404|ref|NM_205860.1|[45545404] gi[45580737]ref[NM_205861.1[[45580737] gi|45827766|ref|NM_205862.1|[45827766] gi|45505183|ref|NM_205863.1|[45505183] gi[45505177]ref[NM_205864.1][45505177] gi|45580695|ref|NM_206538.1|[45580695] gi|45593146|ref|NM_206539.1|[45593146] gi|45545426|ref|NM_206594.1|[45545426] gi|45545428|ref|NM 206595.1|[45545428] gi[45545436|ref|NM_206808.1][45545436] gi[45580731[ref|NM_206809.1][45580731] gi[45545418]ref[NM 206810.1][45545418] gi|45545412|ref|NM_206811.1|[45545412] gi|45580733|ref|NM_206812.1|[45580733] gi|45545414|ref|NM_206813.1|[45545414] gi|45593133|ref|NM_206814.1|[45593133] gi|45580716|ref|NM_206817.1|[45580716] gi|45580718|ref|NM_206818.1|[45580718] gi|46049124|ref|NM 206819.1|[46049124] gi|46049118|ref|NM 206820.1|[46049118] gi|46049109|ref|NM_206821.1|[46049109] gi|45827738|ref|NM_206824.1|[45827738] gi|45643126|ref|NM 206825.1|[45643126] gi|45643128|ref|NM 206826.1|[45643128] gi|45592962|ref|NM 206827.1|[45592962] gi|45593127|ref|NM_206828.1|[45593127] gi|45592951|ref|NM_206831.1|[45592951] gi|45592948|ref|NM_206832.1|[45592948] gi|45592953|ref|NM_206833.1|[45592953] gi|45597461|ref|NM_206834.1|[45597461] gi|45594313|ref|NM_206835.1|[45594313] gi|45643120|ref|NM_206836.1|[45643120] gi|45643130|ref|NM_206837.1|[45643130]

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gil42656825|ref|XM 290714,4|[42656825] gil42661002|ref|XM 290722.3|[42661002] gi|37542517|ref|XM 290732.3|[37542517] gi|42661055|ref|XM 290734.4|[42661055] gi|41150605|ref|XM 290737.3|[41150605] gi|42661294|ref|XM_290743.4|[42661294] gi|42661172|ref|XM_290755.3|[42661172] gi|42661170|ref|XM_290758.4|[42661170] gi|42661271|ref|XM_290768.4|[42661271] gi|42661282|ref|XM_290777.2|[42661282] gi|37543367|ref|XM_290780.2|[37543367] gi[42661125|ref|XM_290781.2|[42661125] gi|29739479|ref|XM_290782.1|[29739479] gi|41150812|ref|XM_290786.3|[41150812] gi|42661239|ref|XM_290793.4|[42661239] gi[42661247|ref|XM_290795.4|[42661247] gi|41150707|ref|XM_290799.4|[41150707] gi|42661375|ref|XM_290809.3|[42661375] gi|37545637|ref|XM_290811.2|[37545637] gi|42661351|ref|XM_290817.2|[42661351] gi|37545112|ref|XM_290818.2|[37545112] gi|42661625|ref|XM_290820.3|[42661625] gi|41208783|ref|XM_290822.3|[41208783] gi[42661626[ref[XM_290829.3][42661626] gi|29741265|ref|XM_290831.1|[29741265] gi|41150974|ref|XM_290835.2[[41150974] gi|42661597|ref|XM_290838.4|[42661597] gi|37551907|ref|XM 290842.2|[37551907] gi|42661654|ref|XM_290848.2|[42661654] gi|37552312|ref|XM 290850.3|[37552312] gi|42661878|ref|XM 290854.3|[42661878] gi|41151134|ref|XM_290865.3|[41151134] gi|29742605|ref|XM_290866.1|[29742605] gi|42661964|ref|XM_290867.2|[42661964] gi[42655588[ref]XM_290872.4][42655588] gi|42655844|ref|XM_290902.3|[42655844] gi|41110101|ref|XM_290922.2|[41110101] gi|37548529|ref|XM_290923.2|[37548529] gi|42658307|ref|XM_290925.4|[42658307] gi|42656768|ref|XM_290927.4|[42656768] gi|42655993|ref|XM_290936.2|[42655993] gi|42655747|ref|XM_290941.3|[42655747] gi|37549539|ref|XM_290944.2|[37549539] gi|42656017|ref|XM_290948.2|[42656017] gi[41114572|ref|XM_290949.3|[41114572] gi|37563751|ref|XM 290972.2|[37563751] gi|42662458|ref|XM_290973.3|[42662458] gi|42656625|ref|XM_290985.4|[42656625] gi|29729340|ref|XM_290994.1|[29729340] gi|42656458|ref|XM_291001.4|[42656458] gi|42656456|ref|XM_291005.4|[42656456] gi|42656476|ref|XM_291007.3|[42656476] gi[42656506|ref|XM_291015.3|[42656506] gi[37546921|ref|XM_291016.2|[37546921] gi[29731718|ref|XM_291017.1|[29731718] gi|42656317|ref|XM_291019.4|[42656317] gi|29732251|ref|XM 291020.1|[29732251]

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gi|42662590|ref|XM 291335.2|[42662590] gi|42662575|ref|XM 291339.3|[42662575] qi|41151657|ref|XM 291344.3|[41151657] gi|37546165|ref|XM 291345.2|[37546165] gi|42662657|ref|XM 291346.4|[42662657] gi|42655594|ref|XM_291378.3|[42655594] gi[41106691|ref|XM_291387.2|[41106691] gi|37539873|ref|XM_291392.2|[37539873] gi|37539876|ref|XM_291394.2|[37539876] gi[41058243|ref|XM_291395.2|[41058243] gi[41058244|ref|XM_291396.3|[41058244] gi|41187873|ref|XM_291400.3|[41187873] gi|37539860|ref|XM_291419.2|[37539860] gi|29728788|ref|XM_291428.1|[29728788] gi|37546790|ref|XM_291435.2|[37546790] gi|29728998|ref|XM_291436.1|[29728998] gi|29729000|ref|XM 291437.1|[29729000] gi|29729002|ref|XM 291438.1|[29729002] gi|29729004|ref|XM_291439.1|[29729004] gi|37546812|ref|XM_291441.2|[37546812] gi|37540095|ref|XM_291464.2|[37540095] gi|41057797|ref|XM_291485.3|[41057797] gi|42655878|ref|XM 291508.5|[42655878] gi|37548551|ref|XM_291533.2|[37548551] gi|37548627|ref|XM_291543.2|[37548627] gi|37548628|ref|XM_291544.2|[37548628] gi|37549777|ref|XM_291548.2|[37549777] gi|42656136|ref|XM 291569.3|[42656136] gi|37548786|ref|XM 291577.2|[37548786] gi|41188544|ref|XM 291584.2|[41188544] gil41221595|ref|XM 291607.4|[41221595] gi[29733317|ref|XM_291623.1|[29733317] gi|41114575|ref|XM_291625.3|[41114575] gi|37549625|ref|XM_291627.2|[37549625] gi|41114486|ref|XM_291638.3|[41114486] gi|30148316|ref|XM_291643.2|[30148316] gi|42656029|ref|XM_291645.3|[42656029] gi|37550870|ref|XM_291663.2|[37550870] gi|42659375|ref|XM_291671.4|[42659375] gi|41149112|ref|XM_291697.2|[41149112] gi|37550861|ref|XM_291698.2|[37550861] gi|29739316|ref|XM_291704.1|[29739316] gi[41149235|ref|XM_291716.4|[41149235] gi|41149253|ref|XM_291723.3|[41149253] gi|41149259|ref|XM_291725.3|[41149259] gi|37551034|ref|XM 291726.2|[37551034] gi|42659457|ref|XM 291729.4|[42659457] gi|42659534|ref|XM 291741.4[[42659534] gi|29740609|ref|XM 291745.1|[29740609] gi|37551288|ref|XM_291757.2|[37551288] gi|41149391|ref|XM_291763.3|[41149391] gi|37551328|ref|XM_291767.2|[37551328] gi|37551336|ref|XM_291770.3|[37551336] gi|29740945|ref|XM_291771.1|[29740945] gi|37541322|ref|XM_291786.2|[37541322] gi|37541647|ref|XM 291793.3|[37541647] gi|37541689|ref|XM_291806.2|[37541689]

gi|42659820|ref|XM_291816.4|[42659820] gi|37540787|ref|XM_291838.3|[37540787] gi|42659650|ref|XM_291857.4|[42659650] gi|41200399|ref|XM_291859.3|[41200399] gi|42659704|ref|XM 291862.3|[42659704] gi|37541135|ref|XM 291885.2|[37541135] gi|37541311|ref|XM_291892.2|[37541311] gi|37550438|ref|XM_291924.2|[37550438] gi|41149641|ref|XM_291943.4|[41149641] gi|41149625|ref|XM_291947.4|[41149625] gi|37541727|ref|XM_291974.2|[37541727] gi|37541709|ref|XM_291977.2|[37541709] gi|37541715|ref|XM_291980.3|[37541715] gi|29746586|ref|XM_291981.1][29746586] gi|37541721|ref|XM_291986.3|[37541721] gi|37541926|ref|XM_291989.2|[37541926] gi|37541876|ref|XM_291991.2|[37541876] gi|42659970|ref|XM_292012.5|[42659970] gi|42660035|ref|XM_292021.3|[42660035] gi[29742308|ref|XM_292023.1|[29742308] gi|37543804|ref|XM_292027.2|[37543804] qi[37543771|ref|XM 292029.3|[37543771] gi|41149783|ref|XM 292035.3|[41149783] gi|29743247|ref|XM 292046.1|[29743247] gi|37542898|ref|XM_292048.3|[37542898] gi|37542975|ref|XM_292049.3|[37542975] gi|37542977|ref|XM_292051.3|[37542977] gi|37543902|ref|XM_292064.2|[37543902] gi|29743830|ref|XM_292085.1|[29743830] gi|42660026|ref|XM_292093.4|[42660026] gi|29744101|ref|XM_292098.1|[29744101] gi|29744569|ref|XM_292109.1|[29744569] gi|42662724|ref|XM_292122.4|[42662724] gi|37542949|ref|XM_292136.2|[37542949] gi|42660182|ref|XM 292160.5|[42660182] gi|41202674|ref|XM_292184.3|[41202674] gi|42660161|ref|XM 292193.4|[42660161] gi|41202627|ref|XM_292197.4|[41202627] gi|29738932|ref|XM_292210.1|[29738932] gi|37546050|ref|XM_292225.2|[37546050] gi|37546054|ref|XM_292227.2|[37546054] gi|42660292|ref|XM_292260.3|[42660292] gi|37546100|ref|XM_292301.2|[37546100] gi|41204964|ref|XM_292357.3|[41204964] gi|37540971|ref|XM_292384.2|[37540971] gi|37540983|ref|XM_292389.3|[37540983] gi|41150007|ref|XM_292394.4|[41150007] gi|37541427|ref|XM_292468.3|[37541427] gi|29747214|ref|XM 292503.1|[29747214] gil42660749|ref|XM 292504.4|[42660749] gi|29747247|ref|XM_292512.1|[29747247] gi|37541859|ref|XM_292527.2|[37541859] gi|37542210|ref|XM_292562.3|[37542210] gi|37542034|ref|XM_292573.3|[37542034] gi|29737769|ref|XM_292596.1|[29737769] gi|42661197|ref|XM_292624.4|[42661197] gi|42661204|ref|XM_292627.4|[42661204]

gi|37544488|ref|XM_292664.2|[37544488] gi|37543752|ref|XM_292674.2|[37543752] gi|37545084|ref|XM_292678.2|[37545084] gi[29743632|ref|XM_292700.1|[29743632] gi[37545877|ref]XM_292707.2[[37545877] gi|42661354|ref|XM_292717.5|[42661354] gi[37552026|ref|XM_292723.3|[37552026] gi|37552123|ref|XM_292724.3|[37552123] gi|41208938|ref|XM_292729.3|[41208938] gi[37551888|ref|XM_292740.2|[37551888] gi|41150997|ref|XM_292745.3|[41150997] gi|41208721|ref|XM_292765.3|[41208721] gi|37551986|ref|XM_292778.2|[37551986] gi|42661676|ref|XM_292779.4|[42661676] gi|37551992|ref|XM_292784.2|[37551992] gi|37551872|ref|XM 292785.3|[37551872] gi|30155117|ref|XM 292796.2|[30155117] gi[37552337|ref|XM 292803.2|[37552337] gi|41151164|ref|XM_292810.3|[41151164] gi|37552519|ref|XM_292813.2|[37552519] gi|41151158|ref|XM_292817.3|[41151158] gi|29742910|ref|XM_292819.1|[29742910] gi|41151098|ref|XM_292820.3|[41151098] gi|41151160|ref|XM_292824.4|[41151160] gi|42662049|ref|XM_292832.5|[42662049] gi|42662051|ref|XM_292836.2|[42662051] gi|37539464|ref|XM_292850.2|[37539464] gi|42656223|ref|XM_292873.4|[42656223] gi|30147787|ref|XM_292889.2|[30147787] gi|37547182|ref|XM_292895.2|[37547182] gi|41125757|ref|XM_292943.3|[41125757] gi|37546973|ref|XM_292957.2|[37546973] gi|37547028|ref|XM_292958.3|[37547028] gi|41191507|ref|XM_292963.3|[41191507] gi|41191513|ref|XM_292968.3|[41191513] gi|42656472|ref|XM_292982.4|[42656472] gi|37549394|ref|XM_293018.2|[37549394] gi|37546996|ref|XM_293026.3|[37546996] gi|42656288|ref|XM_293029.3|[42656288] gi|37547014|ref|XM_293034.2|[37547014] gi|29731856|ref|XM_293042.1|[29731856] gi|42656254|ref|XM_293090.3|[42656254] gi|42656426|ref|XM 293092.4|[42656426] gi|29744194|ref|XM 293097.1|[29744194] gi|37555969|ref|XM_293104.2|[37555969] gi|42662246|ref|XM_293106.4|[42662246] gi|37555984|ref|XM_293121.2|[37555984] gi|41151216|ref|XM_293123.3|[41151216] gi|29745634|ref|XM_293157.1|[29745634] gi|41151301|ref|XM_293160.4|[41151301] gi[41202683|ref[XM_293177.4|[41202683] gi|42662430|ref|XM_293225.4|[42662430] gi|41209907|ref|XM_293226.3|[41209907] gi|29743323|ref|XM_293276.1|[29743323] gi|42662546|ref|XM_293284.4|[42662546] gi[29743718]ref[XM_293293.1][29743718] gi|30156583|ref|XM 293312.2|[30156583]

gi|37546258|ref|XM_293320.3|[37546258] gi|37546580|ref|XM_293325.2|[37546580] gi|29744221|ref|XM_293332.1|[29744221] gi|42662614|ref|XM_293334.3|[42662614] gi|37546247|ref|XM_293342.2|[37546247] gi|37546382|ref|XM_293352.3|[37546382] gi|42662670|ref|XM_293354.5|[42662670] gi|37546402|ref|XM_293360.3|[37546402] gi|37546435|ref|XM_293366.3|[37546435] gi|29745490|ref|XM_293380.1|[29745490] gi|29745444|ref|XM_293387.1|[29745444] gi|29746068|ref|XM_293396.1|[29746068] gi|37546273|ref|XM_293398.2|[37546273] gi|37546461|ref|XM_293401.2|[37546461] gi[42662701]ref[XM_293405.3|[42662701] gi|41151604|ref|XM_293407.3|[41151604] gi|29746316|ref|XM_293412.1|[29746316] gi|41151525|ref|XM_293416.3|[41151525] gi|37546637|ref|XM_293449.2|[37546637] gi[41151762|ref|XM_293460.4|[41151762] gi[29727991|ref|XM_293514.1|[29727991] gi|37550598|ref|XM_293529.2|[37550598] gi|37550133|ref|XM_293542.3|[37550133] gi|42660001|ref|XM_293565.4|[42660001] gi|29730079|ref|XM_293570.1|[29730079] gi|42656852|ref|XM_293577.3[[42656852] gi|37550583|ref|XM_293580.2|[37550583] gi|41194243|ref|XM_293581.3|[41194243] gi|37550141|ref|XM_293596.3|[37550141] gi|41146533|ref|XM_293599.4|[41146533] gi|37550617|ref|XM_293633.2|[37550617] gi|29727605|ref|XM_293656.1|[29727605] gi|42656942|ref|XM_293669.4|[42656942] gi|37539816|ref|XM_293671.3|[37539816] gi|37540053|ref|XM_293680.2|[37540053] gi|41146661|ref|XM_293687.2|[41146661] gi|41146794|ref|XM_293715.4|[41146794] gi|37540623|ref|XM_293745.2|[37540623] gi|37540593|ref|XM_293801.3|[37540593] gi|41146900|ref|XM_293802.3|[41146900] gi|29734520|ref|XM_293821.1|[29734520] gi|42657409|ref|XM_293828.4|[42657409] gi|29734534|ref|XM_293829.1|[29734534] gi|29735241|ref|XM_293868.1|[29735241] gi|42657341|ref|XM_293875.4|[42657341] gi|41147015|ref|XM_293886.3|[41147015] gi|37549991|ref|XM_293893.2|[37549991] gi|42657201|ref|XM_293903.4|[42657201] gi|41147189|ref|XM_293911.3|[41147189] gi|41147080|ref|XM_293918.3|[41147080] gi|37550304|ref|XM_293923.2|[37550304] gi[42657303|ref|XM_293924.3|[42657303] gi|41147085|ref|XM_293927.3|[41147085] gi|37549904|ref|XM_293937.3|[37549904] gi|37549908|ref|XM_293943.2|[37549908] gi|41147215|ref|XM_293971.3|[41147215] gi|37550397|ref|XM_293976.3|[37550397]

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gi|41149399|ref|XM_372306.1|[41149399] gi|41149401|ref|XM_372307.1|[41149401] gi|41149403|ref|XM_372308.1|[41149403] gi|41149405|ref|XM_372309.1|[41149405] gi|41149215|ref|XM_372310.1|[41149215] gi|41149217|ref|XM_372311.1|[41149217] gi|42659406|ref|XM_372312.2|[42659406] gi|41149334|ref|XM_372314.1|[41149334] gi|41149336|ref|XM_372315.1|[41149336] gi|41149340|ref|XM_372316.1|[41149340] gi|41149342|ref|XM_372317.1|[41149342] gi|41149174|ref|XM 372319.1|[41149174] gi|41149176|ref|XM_372320.1|[41149176] gi|41149178|ref|XM_372321.1|[41149178] gi|41149180|ref|XM_372322.1|[41149180] gi|41149182|ref|XM_372323.1|[41149182] gi|41149184|ref|XM_372324.1|[41149184] gi|41149186|ref|XM_372325.1|[41149186] gi|41149192|ref|XM_372328.1|[41149192] gi|41149194|ref|XM_372329.1|[41149194] gi|41149237|ref|XM_372330.1|[41149237] gi|41149227|ref|XM_372331.1|[41149227] gi|41149281|ref|XM_372334.1|[41149281] gi|41149283|ref|XM_372335.1|[41149283] gi|41149271|ref|XM 372337.1|[41149271] gi|41149295|ref|XM_372340.1|[41149295] gi|41149299|ref|XM_372341.1|[41149299] gi|41200927|ref|XM_372343.1|[41200927] gi|41200932|ref|XM_372345.1|[41200932] gi|41200935|ref|XM_372346.1|[41200935] gi|41200939|ref|XM_372347,1|[41200939] gi|41200942|ref|XM_372348.1|[41200942] gi|41200945|ref|XM_372349.1|[41200945] gi|41200947|ref|XM_372350.1|[41200947] gi|42659867|ref|XM_372351.2|[42659867] gi|41200959|ref|XM_372352.1|[41200959] gi|41200962|ref|XM_372353.1|[41200962] gi|41200965|ref|XM_372354.1|[41200965] gi|41200967|ref|XM_372355.1|[41200967] gi|41200969|ref|XM_372356.1|[41200969] gi|41200972|ref|XM_372357.1|[41200972] gi|41200974|ref|XM_372358.1|[41200974] gi|41200976|ref|XM_372359.1|[41200976] gi|41200979|ref|XM_372360.1|[41200979] gi|41200983|ref|XM_372361.1|[41200983] gi|41200985|ref|XM_372362.1|[41200985] gi|42659873|ref|XM_372364.2|[42659873] gi|41200992|ref|XM_372365.1|[41200992] gi|41200994|ref|XM_372366.1|[41200994] gi|41200997|ref|XM_372367.1|[41200997] gi|41200999|ref|XM_372368.1|[41200999] gi|41201001|ref|XM_372369.1|[41201001] gi|41201004|ref|XM_372370.1|[41201004] gi|41201006|ref|XM_372371.1|[41201006] gi|41201015|ref|XM_372372.1|[41201015] gi|41201018|ref|XM_372373.1|[41201018] gi|41201027|ref|XM_372374.1|[41201027]

gi|41201031|ref|XM_372375.1|[41201031] gi|41201035|ref|XM_372376.1|[41201035] gi|41201040|ref|XM_372377.1|[41201040] gi|41201042|ref|XM_372378.1|[41201042] gi|41201050|ref|XM_372379.1|[41201050] gi|41201053|ref|XM 372380.1|[41201053] gi|41201056|ref|XM_372381.1|[41201056] gi|41149607|ref|XM_372382.1|[41149607] gi|41200377|ref|XM_372384.1|[41200377] gi|41200379|ref|XM_372385.1|[41200379] gi|41200386|ref|XM_372386.1|[41200386] gi|41200391|ref|XM_372387.1|[41200391] gi|41200394|ref|XM_372388.1|[41200394] gi|42659698|ref|XM_372389.2|[42659698] gi|41200407|ref|XM 372390,1|[41200407] gi|41200409|ref|XM 372391.1|[41200409] gi|41200416|ref|XM 372393.1|[41200416] gi|41200418|ref|XM 372394.1|[41200418] gi|41200424|ref|XM_372395.1|[41200424] gi|41200427|ref|XM_372396.1|[41200427] gi|41200431|ref|XM_372397.1|[41200431] gi|41200440|ref|XM_372399.1|[41200440] gi|41200443|ref|XM_372400.1|[41200443] gi|41200446|ref|XM_372401.1|[41200446] gi|41200448|ref|XM_372402.1|[41200448] gi|41200452|ref|XM_372403.1|[41200452] gi|41200455|ref|XM_372404.1|[41200455] gi|41200460|ref|XM_372405.1|[41200460] gi[41200470|ref[XM_372406.1][41200470] gi|41200477|ref|XM_372409.1|[41200477] gi|41200487|ref|XM_372410.1|[41200487] gi|41200489|ref|XM_372411.1|[41200489] gi|42659710|ref|XM_372412.2|[42659710] gi|41200497|ref|XM_372413.1|[41200497] gi|41200499|ref|XM 372414.1|[41200499] gi|41200501|ref|XM 372415.1|[41200501] gi|41200503|ref|XM_372416.1|[41200503] gi|41200509|ref|XM_372418.1|[41200509] gi|42659696|ref|XM_372420.2|[42659696] gi|41149631|ref|XM 372423.1|[41149631] gi|41149633|ref|XM_372424.1|[41149633] gi|41149635|ref|XM_372425.1|[41149635] gi|41149637|ref|XM 372426.1|[41149637] gi|41149639|ref|XM 372427.1|[41149639] gi|41149643|ref|XM_372428.1|[41149643] gi|42659783|ref|XM_372429.2|[42659783] gi|41149477|ref|XM_372430.1|[41149477] gi|41149479|ref|XM_372431.1|[41149479] gi|41149481|ref|XM_372432.1|[41149481] gi|41149483|ref|XM_372433.1|[41149483] gi|41149485|ref|XM_372434.1|[41149485] gi|41149487|ref|XM_372435.1|[41149487] gi|41149489|ref|XM_372436.1|[41149489] gi|41149491|ref|XM_372437.1|[41149491] gi|41149493|ref|XM_372438.1|[41149493] gi|42659621|ref|XM_372441.2|[42659621] gi|41149501|ref|XM_372442.1|[41149501]

gi|41149503|ref|XM_372443.1|[41149503] gi|41149505|ref|XM 372444.1|[41149505] gi|41149507|ref|XM_372445.1|[41149507] gi|41149861|ref|XM_372447.1|[41149861] gi|41149863|ref|XM_372448.1|[41149863] gi|41202077|ref|XM_372449.1|[41202077] gi|41202079|ref|XM_372450.1|[41202079] gi|41202088|ref|XM_372452.1|[41202088] gi|41202091|ref|XM 372453.1|[41202091] gi|41201751|ref|XM_372456.1|[41201751] gi|42659990|ref|XM_372457.2|[42659990] gi|41201762|ref|XM_372459.1|[41201762] gi|41201767|ref|XM_372460.1|[41201767] gi|41201770|ref|XM_372461.1|[41201770] gi|41201772|ref|XM_372462.1|[41201772] gi|41201774|ref|XM_372463.1|[41201774] gi|41201777|ref|XM 372464.1|[41201777] gi|41201779|ref|XM 372465.1|[41201779] gi|41201784|ref|XM_372466.1|[41201784] gi[41201790|ref|XM_372468.1|[41201790] gi|41201793|ref|XM_372469.1|[41201793] gi|41201795|ref|XM_372470.1|[41201795] gi|41201797|ref|XM_372471.1|[41201797] gi|41149726|ref|XM_372472.1|[41149726] gi|42659918|ref|XM_372473.2|[42659918] gi|41149730|ref|XM_372474.1|[41149730] gi|41149736|ref|XM_372476.1|[41149736] gi|41149845|ref|XM_372480.1|[41149845] gi|41149851|ref|XM_372482.1|[41149851] gi|41149773|ref|XM_372483.1|[41149773] gi|41202688|ref|XM_372485.1|[41202688] gi|41202691|ref|XM_372486.1|[41202691] gi|41202694|ref|XM_372487.1|[41202694] gi|41202696|ref|XM_372488.1|[41202696] gi|41202701|ref|XM_372490.1|[41202701] gi|41202705|ref|XM_372491.1|[41202705] gi|41202711|ref|XM_372493.1|[41202711] gi|41202716|ref|XM_372494.1|[41202716] gi|41149922|ref|XM_372496.1|[41149922] gi|41149943|ref|XM_372497.1|[41149943] gi|41149928|ref|XM 372498.1|[41149928] gi|41203861|ref|XM_372499.1|[41203861] gi|41203864|ref|XM_372500.1|[41203864] gi|41203866|ref|XM 372501.1|[41203866] gi|41203872|ref|XM_372502.1|[41203872] gi|41203875|ref|XM_372503.1|[41203875] gi|41203877|ref|XM_372504.1|[41203877] gi|41203880|ref|XM_372505.1|[41203880] gi|41203882|ref|XM_372506.1|[41203882] gi|41203885|ref|XM_372507.1|[41203885] gi|41203888|ref|XM_372508.1|[41203888] gi|41203891|ref|XM_372509.1|[41203891] gi|41203895|ref|XM_372521.1|[41203895] gi|41203897|ref|XM_372522.1|[41203897] gi|41203900|ref|XM_372524.1|[41203900] gi|41203903|ref|XM 372525.1|[41203903] gi|41203909|ref|XM_372527.1|[41203909]

gi|42660323|ref|XM_372528.2|[42660323] gi|41203916|ref|XM_372532.1|[41203916] gi|41203921|ref|XM_372534.1|[41203921] gi|41203924|ref|XM_372535.1|[41203924] gi|41203926|ref|XM_372536.1|[41203926] gi|41150127|ref|XM_372542.1|[41150127] gi|41150129|ref|XM_372543.1|[41150129] gi|41150131|ref|XM_372544.1|[41150131] gi|41150137|ref|XM_372547.1|[41150137] gi|41150147|ref|XM_372548.1|[41150147] gi|41150149|ref|XM_372549.1|[41150149] gi|41150151|ref|XM_372550.1|[41150151] gi|41150072|ref|XM_372553.1|[41150072] gi|41150076|ref|XM_372555.1|[41150076] gi|41150064|ref|XM_372556.1|[41150064] gi|41205014|ref|XM_372559.1|[41205014] gi|42660407|ref|XM_372560.2|[42660407] gi|41205021|ref|XM_372562.1|[41205021] gi|41205026|ref|XM_372563.1|[41205026] gi|41205033|ref|XM_372565.1|[41205033] gi|41205035|ref|XM_372566.1|[41205035] gi|42660537|ref|XM_372568.2|[42660537] gi|41205042|ref|XM_372569.1|[41205042] gi|41205044|ref|XM_372570.1|[41205044] gi|41205051|ref|XM_372573.1|[41205051] gi|42660472|ref|XM_372574.2|[42660472] gi|41205056|ref|XM_372575.1|[41205056] gi|41205058|ref|XM_372576.1|[41205058] gi|41205061|ref|XM_372577.1|[41205061] gi|42660492|ref|XM_372578.2|[42660492] gi|42660494|ref|XM_372579.2|[42660494] gi|42660499|ref|XM_372580.2|[42660499] gi|42660509|ref|XM_372581.2|[42660509] gi|41205075|ref|XM_372583.1|[41205075] gi|42660513|ref|XM 372584.2|[42660513] gi|41205080|ref|XM_372585.1|[41205080] gi|41150177|ref|XM_372586.1|[41150177] gi|41205627|ref|XM_372588.1|[41205627] gi|41205629|ref|XM_372589.1|[41205629] gi|41205631|ref|XM_372591.1|[41205631] gi|42660598|ref|XM_372592.2|[42660598] gi|41150092|ref|XM_372593.1|[41150092] gi|41150098|ref|XM_372596.1|[41150098] gi|41150100|ref|XM_372597.1|[41150100] gi|41150102|ref|XM 372598.1|[41150102] gi|41150104|ref|XM_372599.1|[41150104] gi|41150209|ref|XM_372601.1|[41150209] gi|42661004|ref|XM_372606.2|[42661004] gi|41150516|ref|XM_372607.1|[41150516] gi|41150518|ref|XM_372608.1|[41150518] gi|41150520|ref|XM_372609.1|[41150520] gi|41206146|ref|XM_372611.1|[41206146] gi|41206154|ref|XM_372614.1|[41206154] gi|42660740|ref|XM_372615.2|[42660740] gi|41150449|ref|XM_372616.1|[41150449] gi|41150451|ref|XM_372617.1|[41150451] gi|41150453|ref|XM_372618.1|[41150453]

gi|41150461|ref|XM_372622.1|[41150461] gi|41150467|ref|XM 372625.1|[41150467] gi|41150469|ref|XM_372626.1|[41150469] gi|41150473|ref|XM_372628.1|[41150473] gi|41150475|ref|XM_372629.1|[41150475] gi|41150477|ref|XM_372630.1|[41150477] gi|41150530|ref|XM_372631.1|[41150530] gi|41150532|ref|XM_372632.1|[41150532] gi|41150534|ref|XM_372633.1|[41150534] gi|41150536|ref|XM_372634.1|[41150536] gi|41150485|ref|XM 372637.1|[41150485] gi|41150290|ref|XM 372638.1|[41150290] gi|41206449|ref|XM_372639.1|[41206449] gi|41206452|ref|XM_372640.1|[41206452] gi|41206454|ref|XM_372641.1|[41206454] gi|41206457|ref|XM_372642.1|[41206457] gi|41206459|ref|XM_372643.1|[41206459] gi|41206626|ref|XM_372644.1|[41206626] gi|41150345|ref|XM_372646.1|[41150345] gi|42660826|ref|XM_372647.2|[42660826] gi|41150309|ref|XM_372648.1|[41150309] gi|41150679|ref|XM_372650.1|[41150679] gi|41150681|ref|XM_372651.1|[41150681] gi|41150687|ref|XM 372654.1|[41150687] gi|41150689|ref|XM 372655.1|[41150689] gi|41150693|ref|XM_372657.1|[41150693] gi|42661116|ref|XM_372658.2|[42661116] gi|41150697|ref|XM_372660.1|[41150697] gi|41150806|ref|XM_372662.1|[41150806] gi|42661288|ref|XM_372663.2|[42661288] gi|41150754|ref|XM_372666.1|[41150754] gi|41206826|ref|XM_372668.1|[41206826] gi|41206830|ref|XM_372669.1|[41206830] gi|41206832|ref|XM_372670.1|[41206832] gi|41206840|ref|XM_372673.1|[41206840] gi|41222862|ref|XM 372675.1|[41222862] gi|41222865|ref|XM_372676.1|[41222865] gi|42661207|ref|XM_372677.2|[42661207] gi|41222869|ref|XM_372678.1|[41222869] gi|41150571|ref|XM_372679.1|[41150571]. gi|41150573|ref|XM_372680.1|[41150573] gi|41150577|ref|XM_372682.1|[41150577] gi|41150836|ref|XM_372685.1|[41150836] gi|41150904|ref|XM_372687.1|[41150904] gi|41150908|ref|XM_372689.1|[41150908] gi|41207734|ref|XM_372692.1|[41207734] gi|41207737|ref|XM_372693.1|[41207737] gi|41150948|ref|XM_372695.1|[41150948] gi|41150950|ref|XM_372696.1|[41150950] gi|41150934|ref|XM_372697.1|[41150934] gi|41150936|ref|XM 372698.1|[41150936] gi|41150924|ref|XM 372700.1|[41150924] gi|41151051|ref|XM_372701.1|[41151051] gi|41151053|ref|XM_372702.1|[41151053] gi|41151055|ref|XM_372703.1|[41151055] gi|41151057|ref|XM_372704.1|[41151057] gi|41151059|ref|XM_372705.1|[41151059]

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gi|29789521|ref|NG 002404.1|[29789521] gi|29789586|ref|NG 002405.1|[29789586] gi|29789613|ref|NG 002406.1|[29789613] gi|29789615|ref|NG_002408.1|[29789615] gi|48525354|ref|NG_002409.2|[48525354] gi|29789685|ref|NG_002410.1|[29789685] gi|29789500|ref|NG_002411.1|[29789500] gi|29789683|ref|NG_002412.1|[29789683] gi|29789589|ref|NG_002415.1|[29789589] gi|29789649|ref|NG_002416.1|[29789649] gi|29789680|ref|NG_002417.1|[29789680] gi|29789691|ref|NG_002418.1|[29789691] gi|29789771|ref|NG_002419.1|[29789771] gi|29789806|ref|NG 002423.1|[29789806] gi|42415481|ref|NG 002425.1|[42415481] gi|42415482|ref|NG_002426.1|[42415482] gi|42415483|ref|NG_002427.1|[42415483] gi|42415485|ref|NG_002428.1|[42415485] gi|42415484|ref|NG_002429.1|[42415484] gi|29789650|ref|NG_002430.1|[29789650] gi|29789681|ref|NG_002431.1|[29789681] gi|28212469|ref|NG_002432.1|[28212469] gi|28212470|ref|NG_002433.1|[28212470] gi|29789609|ref|NG 002434.1|[29789609] gi|29789794|ref|NG_002437.1|[29789794] gi|29789701|ref|NG_002438.1|[29789701] gi|29789699|ref|NG_002440.1|[29789699] gi|29789661|ref|NG 002448.1|[29789661] gi|29789657|ref|NG 002449.1|[29789657] gi|29789676|ref|NG 002450.1|[29789676] gi|29789659|ref|NG 002451.1|[29789659] gi|29789656|ref|NG_002452.1|[29789656] gi|29789658|ref|NG_002453.1|[29789658] gi|29789660|ref|NG_002454.1|[29789660] gi|28603821|ref|NG_002456.1|[28603821] gi|28603822|ref|NG_002457.1|[28603822] gi|28571461|ref|NG_002458.1|[28571461] gi|29789475|ref|NG_002459.1|[29789475] gi|29789725|ref|NG_002460.1|[29789725] gi|29789677|ref|NG 002461.1|[29789677] gi|29789812|ref|NG_002462.1|[29789812] gi|29789674|ref|NG 002463.1|[29789674] gi|29789499|ref|NG_002464.1|[29789499] gi|29789808|ref|NG_002465.1|[29789808] gi|29789828|ref|NG_002467.1|[29789828] gi|29789690|ref|NG_002468.1|[29789690] gi|29789810|ref|NG 002469.1|[29789810] gi|29789811|ref|NG_002470.1|[29789811] gi|29789675|ref|NG_002471.1|[29789675] gi|29789803|ref|NG_002472.1|[29789803] gi|29789804|ref|NG_002473.1|[29789804] gi|29789805|ref|NG_002474.1|[29789805] gi|29789802|ref|NG 002475.1|[29789802] gi|29789800|ref|NG 002476.1|[29789800] gi|29789801|ref|NG_002477.1|[29789801] gi|29789825|ref|NG_002478.1|[29789825] gi|29789798|ref|NG_002479.1|[29789798]

gi|29789777|ref|NG_002480.1|[29789777] gi|28372978|ref|NG_002481.1|[28372978] gi|29789557|ref|NG_002482.1|[29789557] gi|29789606|ref|NG_002483.1|[29789606] gi|29789603|ref|NG_002484.1|[29789603] gi|29789753|ref|NG_002485.1|[29789753] gi|29789703|ref|NG_002486.1|[29789703] gi|29789555|ref|NG 002487.1|[29789555] gi|29789560|ref|NG_002488.1|[29789560] gi|29789706|ref|NG_002489.1|[29789706] gi|29789482|ref|NG_002490.1|[29789482] gi|29789553|ref|NG_002491.1|[29789553] gi|29789824|ref|NG_002492.1|[29789824] gi|29789773|ref|NG_002493.1|[29789773] gi|29789774|ref|NG_002494.1|[29789774] gi|29789765|ref|NG_002495.1|[29789765] gi|29789772|ref|NG_002496.1|[29789772] gi|29789819|ref|NG_002497.1|[29789819] gi|29789769|ref|NG_002498.1|[29789769] gi|29789770|ref|NG_002499.1|[29789770] gi|29789820|ref|NG_002500.1|[29789820] gi|29789474|ref|NG_002501.1|[29789474] gi|29789473|ref|NG_002502.1|[29789473] gi|29789480|ref|NG_002503.1|[29789480] gi|29789472|ref|NG_002504.1|[29789472] gl|29789634|ref|NG_002505.1|[29789634] gi|42415486|ref|NG_002506.1|[42415486] gi|29789704|ref|NG_002507.1|[29789704] gi|29789727|ref|NG_002508.1|[29789727] gi|29789728|ref|NG_002509.1|[29789728] gi|29789726|ref|NG_002510.1|[29789726] gi|29789723|ref|NG_002511.1|[29789723] gi|29789724|ref|NG_002512.1|[29789724] gi|29789570|ref|NG_002513.1|[29789570] gi|29789821|ref|NG_002514.1|[29789821] gi|29789818|ref|NG_002515.1|[29789818] gi|29789813|ref|NG_002516.1|[29789813] gi|29789747|ref|NG_002517.1|[29789747] gi|29789567|ref|NG_002518.1|[29789567] gi|29789559|ref|NG_002519.1|[29789559] gi|29789558|ref|NG_002520.1|[29789558] gi|29789556|ref|NG_002521.1|[29789556] gi|29789523|ref|NG_002522.1|[29789523] gi|29789525|ref|NG_002523.1|[29789525] gi|29789484|ref|NG_002524.1|[29789484] gi|29789549|ref|NG_002525.1|[29789549] gi|29789534|ref|NG_002526.1|[29789534] gi|29789548|ref|NG_002527.1|[29789548] gi|29789481|ref|NG_002528.1|[29789481] gi|29789487|ref|NG_002529.1|[29789487] gi|29789497|ref|NG_002530.1|[29789497] gi|29789498|ref|NG_002531.1|[29789498] gi|29789501|ref|NG_002532.1|[29789501] gi|29789503|ref|NG_002533.1|[29789503] gi|29789505|ref|NG_002534.1|[29789505] gi|29789568|ref|NG_002535.1|[29789568] gi|29789504|ref|NG_002537.1|[29789504]

gi|29789565|ref|NG_002538.1|[29789565] gi|29789566|ref|NG_002539.1|[29789566] gi|29789563|ref|NG_002540.1|[29789563] gi|29789564|ref|NG_002541.1|[29789564] gi|29789561|ref|NG_002542.1|[29789561] gi|29789562|ref|NG_002543.1|[29789562] gi|29789554|ref|NG_002544.1|[29789554] gi|29789551|ref|NG_002545.1|[29789551] gi|29789552|ref|NG_002546.1|[29789552] gi|29789767|ref|NG_002547.1|[29789767] gi|29789722|ref|NG_002548.1|[29789722] gi|29789550|ref|NG_002549.1|[29789550] gi|29789547|ref|NG_002550.1|[29789547] gi|29789545|ref|NG_002551.1|[29789545] gi|29789716|ref|NG_002552.1|[29789716] gl|29789546|ref|NG_002553.1|[29789546] gi|29789633|ref|NG_002554.1|[29789633] gi|29789543|ref|NG_002555.1|[29789543] gi|29789544|ref|NG_002556.1|[29789544] gi|29789654|ref|NG_002557.1|[29789654] gi|29789541|ref|NG_002558.1|[29789541] gi|29789539|ref|NG_002559.1|[29789539] gi|29789540|ref|NG_002560.1|[29789540] gi|29789537|ref|NG_002561.1|[29789537] gi|29789538|ref|NG_002562.1|[29789538] gi|29789533|ref|NG_002563.1|[29789533] gi|29789530|ref|NG_002564.1|[29789530] gi|29789600|ref|NG_002565.1|[29789600] gi|29789531|ref|NG_002566.1|[29789531] gi|29789528|ref|NG_002567.1|[29789528] gi|29789618|ref|NG_002568.1|[29789618] gi|29789529|ref|NG_002570.1|[29789529] gi|29789526|ref|NG_002571.1|[29789526] gi|29789527|ref|NG_002572.1|[29789527] gi|29789524|ref|NG_002573.1|[29789524] gi|29789520|ref|NG_002574.1|[29789520] gi|29789532|ref|NG_002575.1|[29789532] gi|29789522|ref|NG_002576.1|[29789522] gi|29789465|ref|NG_002577.1|[29789465] gi|29789464|ref|NG_002578.1|[29789464] gi|29789461|ref|NG_002579.1|[29789461] gi|29789463|ref|NG_002580.1|[29789463] gi|29789696|ref|NG_002581.1|[29789696] gi|29789466|ref|NG_002582.1|[29789466] gi|29789462|ref|NG_002583.1|[29789462] gi|29789460|ref|NG_002584.1|[29789460] gi|49615102|ref|NG_002585.1|[49615102] gi|29789468|ref|NG_002586.1|[29789468] gi|49615103|ref|NG_002587.1|[49615103] gl|29789655|ref|NG_002588.1|[29789655] gi|29789653|ref|NG_002589.1|[29789653] gi|29789651|ref|NG_002590.1|[29789651] gi|29789652|ref|NG_002591.1|[29789652] gi|29789665|ref|NG_002592.1|[29789665] gi|29789646|ref|NG_002593.1|[29789646] gi|29789635|ref|NG_002594.1|[29789635] gi|29789632|ref|NG_002595.1|[29789632]

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gi|33563343|ref|NG_002976.1|[33563343] gi|33563344|ref[NG_002977.1|[33563344] gi|33563345|ref|NG_002978.1|[33563345] gi|33563346|ref|NG 002979.1|[33563346] gi|33563347|ref|NG_002980.1|[33563347] gi|33563348|ref|NG_002981.1|[33563348] gi|33563349|ref|NG_002982.1|[33563349] gi[33563350|ref|NG_002983.1|[33563350] gi|33563351|ref|NG_002984.1|[33563351] gi[33563352|ref|NG_002985.1|[33563352] gi|33563353|ref|NG_002986.1|[33563353] gi|33563356|ref|NG_002987.1|[33563356] gi|33563357|ref|NG 002988.1|[33563357] gi|33563358|ref|NG 002989.1|[33563358] gi|33563359|ref|NG_002990.1|[33563359] gi|33563360|ref|NG_002991.1|[33563360] gi|33563361|ref|NG_002992.1|[33563361] gi|33563362|ref|NG_002993.1|[33563362] gi|33563363|ref|NG_002994.1|[33563363] gi|33563364|ref|NG_002995.1|[33563364] gil33589840lrefING 002996.1l[33589840] gi|33589837|ref|NG 002997.1|[33589837] gi|33589841|ref|NG_002998.1|[33589841] gi|33589839|ref|NG 002999.1|[33589839] gi|34303967|ref|NG 003006.1|[34303967] gi|34098955|ref|NG_003008.1|[34098955] gi|34304063|ref|NG_003009.1|[34304063] gi|34304009|ref|NG_003010.1|[34304009] gi|34304012|ref|NG_003011.1|[34304012] gi|34304013|ref|NG_003012.1|[34304013] gi|34304014|ref|NG_003013.1|[34304014] gi|34304015|ref|NG_003014.1|[34304015] gi|34304016|ref|NG_003015.1|[34304016] gi|34304017|ref|NG_003016.1|[34304017] gi|34328083|ref|NG_003017.1|[34328083] gi|34328088|ref|NG_003018.1|[34328088] gi|34328084|ref|NG_003019.1|[34328084] gi|34328090|ref|NG_003020.1|[34328090] gi|34328087|ref|NG 003021.1|[34328087] gi|34328093|ref|NG 003022.1|[34328093] gi|34328089|ref|NG_003023.1|[34328089] gi|34328096|ref|NG_003024.1|[34328096] gi|34395920|ref|NG_003025.1|[34395920] gi|34419619|ref|NG_003026.1|[34419619] gi|34419623|ref|NG_003027.1|[34419623] gi|34419620|ref|NG_003028.1|[34419620] gi|34419626|ref|NG_003029.1|[34419626] gi|34447214|ref|NG 003030.1|[34447214] gi|34447212|ref|NG_003031.1|[34447212] gi|34447213|ref|NG 003032.1|[34447213] gi|34447219|ref|NG_003033.1|[34447219] gi|34447215|ref|NG_003034.1|[34447215] gl|34447221|ref|NG_003035.1|[34447221] gi|34447218|ref|NG_003036.1|[34447218] gi|34447220|ref|NG_003037.1|[34447220] gi|34447225|ref|NG_003038.1|[34447225] gi|34482048|ref|NG_003039.1|[34482048]

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gi|34536817|ref|NG_003040.1|[34536817] gi|34594662|ref|NG_003041.1|[34594662] gi|34594667|ref|NG_003042.1|[34594667] gi|34594665|ref|NG_003043.1|[34594665] gi[35215289|ref[NG_003044.1|[35215289] gi|35215290|ref|NG_003045.1|[35215290] gi|37620190|ref|NG_003061.1|[37620190] gi|37620207|ref|NG_003062.1|[37620207] gi|37620208|ref|NG_003063.1|[37620208] gl|37674243|ref|NG_003064.1|[37674243] gi|37693501|ref|NG_003070.1|[37693501] gi|38604065|ref|NG_003072.1|[38604065] gi|37700235|ref|NG_003073.1|[37700235] gi|37700242|ref|NG_003074.1|[37700242] gi|37700247|ref|NG_003075.1|[37700247] gi|37700250|ref|NG_003076.1|[37700250] gi|37700257|ref|NG_003077.1|[37700257] gi|37700258|ref|NG_003078.1|[37700258] gi|37700259|ref|NG_003079.1|[37700259] gi|37700260|ref|NG_003080.1|[37700260] gi|37700261|ref|NG_003081.1|[37700261] gi|37700262|ref|NG_003082.1|[37700262] gi|37700263|ref|NG_003083.1|[37700263] gl|37700264|ref|NG_003084.1|[37700264] gi[37700265|ref]NG_003085.1|[37700265] gi|37700266|ref|NG_003086.1|[37700266] gi|37700267|ref|NG_003087.1|[37700267] gl|37700268|ref|NG_003088.1|[37700268] gi[37700269|ref|NG_003089.1|[37700269] gi|37700270|ref|NG_003090.1|[37700270] gi|37700271|ref|NG_003091.1|[37700271] gi|37700272|ref|NG_003092.1|[37700272] gi|37700273|ref|NG_003093.1|[37700273] gi|37700277|ref|NG_003094.1|[37700277] gi]37700275|ref|NG_003095.1|[37700275] gi|37700278|ref|NG_003096.1|[37700278] gi|37700276|ref|NG_003097.1|[37700276] gi|37700279|ref|NG_003098.1|[37700279] gi[37700280|ref[NG_003099.1|[37700280] gi|38570424|ref|NG_003100.1|[38570424] gi|38016168|ref|NG_003101.1|[38016168] gi|38016169|ref|NG_003102.1|[38016169] gi|38016170|ref|NG_003103.1|[38016170] gi|38570426|ref|NG_003104.1|[38570426] glj38016185|ref[NG_003105.1|[38016185] gi|38016181|ref|NG_003106.1|[38016181] gi|38194230|ref|NG_003107.1|[38194230] gi|38257142|ref|NG_003108.1|[38257142] gi|38257149|ref|NG_003109.1|[38257149] gi|38570425|ref|NG_003110.1|[38570425] gi|38348441|ref|NG_003111.1|[38348441] gi[38371733|ref[NG_003114.1][38371733] gi|38371741|ref|NG_003115.1|[38371741] gi[38371740|ref|NG_003116.1|[38371740] gi|38371746|ref|NG_003117.1|[38371746] gi[38371742|ref[NG_003118.1|[38371742] gi|38371748|ref|NG_003119.1|[38371748]

gi|38371745|ref|NG 003120.1|[38371745] gi|38371749|ref|NG 003121.1|[38371749] gi|38371747|ref|NG 003122.1|[38371747] gi|38371751|ref|NG 003125.1|[38371751] gi|38371750|ref|NG_003126.1|[38371750] gi|38371752|ref|NG 003127.1|[38371752] gi|47894453|ref|NG_003128.2|[47894453] gi|38371756|ref|NG_003129.1|[38371756] gi[38488761]ref[NG_003130.1][38488761] gi|38488760|ref|NG_003131.1|[38488760] gi|38488762|ref|NG_003132.1|[38488762] gi|38488769|ref|NG_003133.1|[38488769] gi[38488765|ref|NG_003134.1|[38488765] gi|38488771|ref|NG_003135.1|[38488771] gi|38488768|ref|NG 003136.1|[38488768] gi|38488773|ref|NG_003137.1|[38488773] gi|38488770|ref|NG_003138.1|[38488770] gi|38488775|ref|NG_003139.1|[38488775] gi|38488772|ref|NG_003140.1|[38488772] gi|38488777|ref|NG_003141.1|[38488777] gi|38488774|ref|NG_003142.1|[38488774] gi|38488779|ref|NG_003143.1|[38488779] gi|38488776|ref|NG_003144.1|[38488776] gi|38488780|ref|NG 003145.1|[38488780] gi|38488778|ref|NG_003146.1|[38488778] gi|38488782|ref|NG 003147.1|[38488782] gi|38488781|ref|NG 003148.1|[38488781] gi|38488783|ref|NG 003149.1|[38488783] gi|38488784|ref[NG 003150.1|[38488784] gi|38488786|ref|NG 003151.1|[38488786] gi|38488785|ref|NG 003152.1|[38488785] gi|38488787|ref|NG 003153.1|[38488787] gi|38502319|ref|NG_003154.1|[38502319] gi|39573710|ref|NG_003155.1|[39573710] gi|39573711|ref|NG_003156.1|[39573711] gi|39573719|ref|NG_003157.1|[39573719] gi|39573721|ref|NG_003158.1|[39573721] gi|39573722|ref|NG_003159.1|[39573722] gi|39573720|ref|NG_003160.1|[39573720] gi|40217618|ref|NG_003162.1|[40217618] gi|40217619|ref|NG 003163.1|[40217619] gi|40353208|ref|NG_003164.1|[40353208] gi|40217620|ref|NG_003165.1|[40217620] gi|40217623|ref|NG_003166.1|[40217623] gi|40217624|ref|NG_003167.1|[40217624] gi|40217631|ref|NG_003168.1|[40217631] gi|40217632|ref|NG_003169.1|[40217632] gi|40217633|ref|NG_003170.1|[40217633] gi|40217634|ref|NG_003171.1|[40217634] gi|40217635|ref|NG_003172.1|[40217635] gi|40217636|ref|NG_003173.1|[40217636] gi|40806230|ref|NG 003180.1|[40806230] gil41349935|ref|NG 003183.1|[41349935] gi|41680696|ref|NG 003186.1|[41680696] gi|41680699|ref|NG_003187.1|[41680699] gi|47894442|ref|NG_003188.1|[47894442] gi|42761477|ref|NG_003189.1|[42761477]

gi|45120107|ref|NG 003190.1|[45120107] gi|45504397|ref|NG 003193.1|[45504397] gi|45504395|ref|NG_003194.1|[45504395] gi|45504396|ref|NG_003195.1|[45504396] gi|48525360|ref|NG_003196.2|[48525360] gi|45504378|ref|NG_003197.1|[45504378] gi|49457787|ref|NG_003198.2|[49457787] gi|45592950|ref|NG_003200.1|[45592950] gi|45592947|ref|NG_003201.1|[45592947] gi|46047452|ref|NG_003215.1|[46047452] gi|46047437|ref|NG_003216.1|[46047437] gi|46047457|ref|NG_003217.1|[46047457] gi|46047450|ref|NG_003218.1|[46047450] gi|46047461|ref|NG 003219.1|[46047461] gi|46047469|ref|NG 003221.1|[46047469] gi|46047477|ref|NG_003222.1|[46047477] gi|46048465|ref|NG_003230.1|[46048465] gi|46048483|ref|NG_003253.1|[46048483] gi|46243669|ref|NG_003254.1|[46243669] gi|46389547|ref|NG_003255.1|[46389547] gi|46395481|ref|NG_003256.1|[46395481] gi|46409255|ref|NG_003258.1|[46409255] gi|46409256|ref|NG_003259.1|[46409256] gi|47458033|ref|NG 004075.1|[47458033] gi|47458034|ref|NG_004077.1|[47458034] gi|47777326|ref|NG_004085.1|[47777326] gi|48525355|ref|NG 004086.2|[48525355] gi|48525356|ref|NG 004087.2|[48525356] gi|49615106|ref|NG 004088.1|[49615106] gi|47777331|ref|NG_004089.1|[47777331] gi|47777338|ref|NG_004091.1|[47777338] gi|47777341|ref|NG_004092.1|[47777341] gi|47777342|ref|NG_004093.1|[47777342] gi|47827226|ref|NG_004095.1|[47827226] gi|47827223|ref|NG_004096.1|[47827223] gi|47827227|ref|NG_004097.1|[47827227] gi|47827228|ref|NG_004098.1|[47827228] gi|47827229|ref|NG_004099.1|[47827229] gi|47827230|ref|NG_004100.1|[47827230] gi|47827231|ref|NG 004101.1|[47827231] gi|47827232|ref|NG_004102.1|[47827232] gi|47827233|ref|NG_004103.1|[47827233] gi|48427665|ref|NG_004109.1|[48427665] gi|48475056|ref|NG_004110.1|[48475056] gi|48475053|ref|NG_004111.1|[48475053] gi|49487492|ref|NG 004112.1|[49487492] gi|49487494|ref|NG_004113.1|[49487494] gi|48597004|ref|NG_004115.1|[48597004] gi|48597002|ref|NG 004116.1|[48597002] gi|48597025|ref|NG_004122.1|[48597025] gi|48597022|ref|NG 004123.1|[48597022] gi|48597024|ref|NG_004124.1|[48597024] gi|48597029|ref|NG 004125.1|[48597029] gi|48597026|ref|NG 004126.1|[48597026] gi|48597031|ref|NG_004127.1|[48597031] gi|48597028|ref|NG_004128.1|[48597028] qi|48597032|ref|NG 004129.1|[48597032]

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 Table II

 Non-limiting examples of Stabilization Chemistries for chemically modified siNA constructs

Chemistry	pyrimidine	Purine	сар	p=S	Strand
"Stab 00"	Ribo	Ribo	TT at 3'- ends		S/AS
"Stab 1"	Ribo	Ribo	-	5 at 5'-end 1 at 3'-end	S/AS
"Stab 2"	Ribo	Ribo	-	All linkages	Usually AS
"Stab 3"	2'-fluoro	Ribo	-	4 at 5'-end 4 at 3'-end	Usually S
"Stab 4"	2'-fluoro	Ribo	5' and 3'- ends	-	Usually S
"Stab 5"	2'-fluoro	Ribo	_	1 at 3'-end	Usually AS
"Stab 6"	2'-O-Methyl	Ribo	5' and 3'- ends	-	Usually S
"Stab 7"	2'-fluoro	2'-deoxy	5' and 3'- ends	-	Usually S
"Stab 8"	2'-fluoro	2'-O- Methyl	-	1 at 3'-end	S/AS
"Stab 9"	Ribo	Ribo	5' and 3'- ends	-	Usually S
"Stab 10"	Ribo	Ribo	-	1 at 3'-end	Usually AS
"Stab 11"	2'-fluoro	2'-deoxy	-	1 at 3'-end	Usually AS
"Stab 12"	2'-fluoro	LNA	5' and 3'- ends		Usual 1 y S
"Stab 13"	2'-fluoro	LNA		1 at 3'-end	Usually AS
"Stab 14"	2'-fluoro	2'-deoxy		2 at 5'-end 1 at 3'-end	Usually AS
"Stab 15"	2'-deoxy	2'-deoxy		2 at 5'-end 1 at 3'-end	Usually AS
"Stab 16"	Ribo	2'-O- Methyl	5' and 3'- ends		Usual 1 y S
"Stab 17"	2'-O-Methyl	2'-O- Methyl	5' and 3'- ends		Usual 1 y S
"Stab 18"	2'-fluoro	2'-O- Methyl	5' and 3'- ends		Usual 1 y S
"Stab 19"	2'-fluoro	2'-O- Methyl	3'-end		S/AS
"Stab 20"	2'-fluoro	2'-deoxy	3'-end		Usually AS
"Stab 21"	2'-fluoro	Ribo	3'-end		Usually AS
"Stab 22"	Ribo	Ribo	3'-end		Usually AS
<u>"Stab 23"</u>	2'-fluoro*	<u>2'-deoxy*</u>	5' and 3'- ends		<u>Usually S</u>
<u>"Stab 24"</u>	2'-fluoro*	<u>2'-O-</u> <u>Methyl*</u>	=	1 at 3'-end	<u>S/A.S</u>

<u>"Stab 25"</u>	2'-fluoro*	<u>2'-O-</u> <u>Methyl*</u>	=	1 at 3'-end	<u>S/AS</u>
<u>"Stab 26"</u>	2'-fluoro*	<u>2'-O-</u> <u>Methyl*</u>	1.0		<u>s/As</u>
<u>"Stab 27"</u>	2'-fluoro*	<u>2'-O-</u> <u>Methyl*</u>	3'-end		<u>S/AS</u>
<u>"Stab 28"</u>	2'-fluoro*	<u>2'-O-</u> <u>Methyl*</u>	3'-end		<u>S/AS</u>
<u>"Stab 29"</u>	<u>2'-fluoro*</u>	<u>2'-O-</u> <u>Methyl*</u>		<u>1 at 3'-end</u>	<u>S/AS</u>
<u>"Stab 30"</u>	2'-fluoro*	<u>2'-O-</u> <u>Methyl*</u>			<u>S/AS</u>
<u>"Stab 31"</u>	2'-fluoro*	<u>2'-O-</u> <u>Methyl*</u>	3'-end		<u>S/AS</u>
<u>"Stab 32"</u>	<u>2'-fluoro</u>	<u>2'-O-</u> <u>Methyl</u>			<u>S/AS</u>

CAP = any terminal cap, see for example Figure 10.

All Stab 00-32 chemistries can comprise 3'-terminal thymidine (TT) residues

All Stab 00-32 chemistries typically comprise about 21 nucleotides, but can vary as described

5 herein.

S = sense strand

AS = antisense strand

*Stab 23 has a single ribonucleotide adjacent to 3'-CAP

*Stab 24 and Stab 28 have a single ribonucleotide at 5'-terminus

*Stab 25, Stab 26, and Stab 27 have three ribonucleotides at 5'-terminus

*Stab 29, Stab 30, and Stab 31, any purine at first three nucleotide positions from 5'-terminus are ribonucleotides

p = phosphorothioate linkage

15

Table III

A. 2.5 μmol Synthesis Cycle ABI 394 Instrument

Reagent	Equivalents	Amount	Wait Time* DNA	Wait Time* 2'-O-methyl	Wait Time*RNA
Phosphoramidites	6.5	163 µL	45 sec	2.5 min	7.5 min
S-Ethyl Tetrazole	23.8	238 µL	45 sec	2.5 min	7.5 min
Acetic Anhydride	100	233 µL	5 sec	5 sec	5 sec
N-Methyl Imidazole	186	233 µL	5 sec	5 sec	5 sec
TCA	176	2.3 mL	21 sec	21 sec	21 sec
lodine	11.2	1.7 mL	45 sec	45 sec	45 sec
Beaucage	12.9	645 µL	100 sec	300 sec	300 sec
Acetonitrile	NA	6.67 mL	NA	NA	NA

B. $0.2 \mu mol Synthesis Cycle ABI 394 Instrument$

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Reagent	Equivalents	Amount	Wait Time* DNA	Wait Time* 2'-O-methyl	Wait Time*RNA
Phosphoramidites	15	31 μL	45 sec	233 sec	465 sec
S-Ethyl Tetrazole	38.7	31 µL	45 sec	233 min	465 sec
Acetic Anhydride	655	124 µL	5 sec	5 sec	5 sec
N-Methyl Imidazole	1245	124 µL	5 sec	5 sec	5 sec
TCA	700	732 µL	10 sec	10 sec	10 sec
lodine	20.6	244 µL	15 sec	15 sec	15 sec
Beaucage	7.7	232 µL	100 sec	300 sec	300 sec
Acetonitrile	NA	2.64 mL	NA	NA	NA

C. 0.2 µmol Synthesis Cycle 96 well Instrument

Reagent	Equivalents:DNA/ 2'-O-methyl/Ribo	Amount: DNA/2'-O- methyl/Ribo	Wait Time* DNA	Wait Time* 2'-O- methyl	WaitTime* Ribo
Phosphoramidites	22/33/66	40/60/120 μL	60 sec	180 sec	360sec
S-Ethyl Tetrazole	70/105/210	40/60/120 μL	60 sec	180 min	360 sec
Acetic Anhydride	265/265/265	50/50/50 μL	10 sec	10 sec	10 sec
N-Methyl Imidazole	502/502/502	50/50/50 μL	10 sec	10 sec	10 sec
TCA	238/475/475	250/500/500 µL	15 sec	15 sec	15 sec
lodine	6.8/6.8/6.8	80/80/80 µL	30 sec	30 sec	30 sec
Beaucage	34/51/51	80/120/120	100 sec	200 sec	200 sec
Acetonitrile	NA	1150/1150/1150 µL	NA	NA	NA

- Wait time does not include contact time during delivery.
- Tandem synthesis utilizes double coupling of linker molecule

CLAIMS

What we claim is:

- 1. A chemically synthesized double stranded short interfering nucleic acid (siNA) molecule that directs cleavage of an expressed pseudogene target RNA via RNA interference (RNAi), wherein:
 - a) each strand of said siNA molecule is about 18 to about 23 nucleotides in length; and
 - b) one strand of said siNA molecule comprises nucleotide sequence having sufficient complementarity to said expressed pseudogene target RNA for the siNA molecule to direct cleavage of the expressed pseudogene target RNA via RNA interference.
- 2. The siNA molecule of claim 1, wherein said siNA molecule comprises no ribonucleotides.
- 3. The siNA molecule of claim 1, wherein said siNA molecule comprises one or more ribonucleotides.
- 4. The siNA molecule of claim 1, wherein one strand of said double-stranded siNA molecule comprises a nucleotide sequence that is complementary to a nucleotide sequence of the expressed pseudogene target RNA or a portion thereof, and wherein a second strand of said double-stranded siNA molecule comprises a nucleotide sequence substantially similar to the nucleotide sequence or a portion thereof of the expressed pseudogene target RNA.
- 5. The siNA molecule of claim 4, wherein each strand of the siNA molecule comprises about 18 to about 23 nucleotides, and wherein each strand comprises at least about 19 nucleotides that are complementary to the nucleotides of the other strand.
- 6. The siNA molecule of claim 1, wherein said siNA molecule comprises an antisense region comprising a nucleotide sequence that is complementary to a nucleotide sequence of the expressed pseudogene target RNA or a portion thereof, and wherein said siNA further comprises a sense region, wherein said sense region comprises a nucleotide sequence substantially similar to the nucleotide sequence of the expressed pseudogene target RNA or a portion thereof.

7. The siNA molecule of claim 6, wherein said antisense region and said sense region comprise about 18 to about 23 nucleotides, and wherein said antisense region comprises at least about 18 nucleotides that are complementary to nucleotides of the sense region.

- 8. The siNA molecule of claim 1, wherein said siNA molecule comprises a sense region and an antisense region, and wherein said antisense region comprises a nucleotide sequence that is complementary to a nucleotide sequence the expressed pseudogene target RNA or a portion thereof, and said sense region comprises a nucleotide sequence that is complementary to said antisense region.
- 9. The siNA molecule of claim 6, wherein said siNA molecule is assembled from two separate oligonucleotide fragments wherein one fragment comprises the sense region and a second fragment comprises the antisense region of said siNA molecule.
- 10. The siNA molecule of claim 6, wherein said sense region is connected to the antisense region via a linker molecule.
- 11. The siNA molecule of claim 10, wherein said linker molecule is a polynucleotide linker.
- 12. The siNA molecule of claim 10, wherein said linker molecule is a non-nucleotide linker.
- 13. The siNA molecule of claim 6, wherein pyrimidine nucleotides in the sense region are 2'-O-methyl pyrimidine nucleotides.
- 14. The siNA molecule of claim 6, wherein purine nucleotides in the sense region are 2'-deoxy purine nucleotides.
- 15. The siNA molecule of claim 6, wherein pyrimidine nucleotides present in the sense region are 2'-deoxy-2'-fluoro pyrimidine nucleotides.
- 16. The siNA molecule of claim 9, wherein the fragment comprising said sense region includes a terminal cap moiety at a 5'-end, a 3'-end, or both of the 5' and 3' ends of the fragment comprising said sense region.
- 17. The siNA molecule of claim 16, wherein said terminal cap moiety is an inverted deoxy abasic moiety.

18. The siNA molecule of claim 6, wherein pyrimidine nucleotides of said antisense region are 2'-deoxy-2'-fluoro pyrimidine nucleotides.

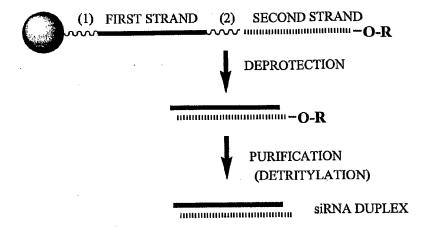
- 19. The siNA molecule of claim 6, wherein purine nucleotides of said antisense region are 2'-O-methyl purine nucleotides.
- 20. The siNA molecule of claim 6, wherein purine nucleotides present in said antisense region comprise 2'-deoxy- purine nucleotides.
- 21. The siNA molecule of claim 18, wherein said antisense region comprises a phosphorothioate internucleotide linkage at the 3' end of said antisense region.
- 22. The siNA molecule of claim 6, wherein said antisense region comprises a glyceryl modification at a 3' end of said antisense region.
- 23. The siNA molecule of claim 9, wherein each of the two fragments of said siNA molecule comprise about 21 nucleotides.
- 24. The siNA molecule of claim 23, wherein about 19 nucleotides of each fragment of the siNA molecule are base-paired to the complementary nucleotides of the other fragment of the siNA molecule and wherein at least two 3' terminal nucleotides of each fragment of the siNA molecule are not base-paired to the nucleotides of the other fragment of the siNA molecule.
- 25. The siNA molecule of claim 24, wherein each of the two 3' terminal nucleotides of each fragment of the siNA molecule are 2'-deoxy-pyrimidines.
- 26. The siNA molecule of claim 25, wherein said 2'-deoxy-pyrimidine is 2'-deoxy-thymidine.
- 27. The siNA molecule of claim 23, wherein all of the about 21 nucleotides of each fragment of the siNA molecule are base-paired to the complementary nucleotides of the other fragment of the siNA molecule.
- 28. The siNA molecule of claim 23, wherein about 19 nucleotides of the antisense region are base-paired to the nucleotide sequence of the expressed pseudogene target RNA or a portion thereof.
- 29. The siNA molecule of claim 23, wherein about 21 nucleotides of the antisense region are base-paired to the nucleotide sequence of the expressed pseudogene target RNA or a portion thereof.

30. The siNA molecule of claim 9, wherein a 5'-end of the fragment comprising said antisense region optionally includes a phosphate group.

- 31. A composition comprising the siNA molecule of claim 1 in an pharmaceutically acceptable carrier or diluent.
- 32. The siNA molecule of claim 1, wherein said expressed pseudogene target is a disease related expressed pseudogene.

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Figure 1



= SOLID SUPPORT

R = TERMINAL PROTECTING GROUP FOR EXAMPLE: DIMETHOXYTRITYL (DMT)

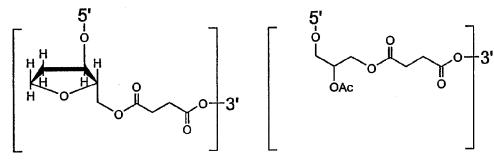
(1) = CLEAVABLE LINKER

(FOR EXAMPLE: NUCLEOTIDE SUCCINATE OR

(2) INVERTED DEOXYABASIC SUCCINATE)

= CLEAVABLE LINKER

(FOR EXAMPLE: NUCLEOTIDE SUCCINATE OR INVERTED DEOXYABASIC SUCCINATE)

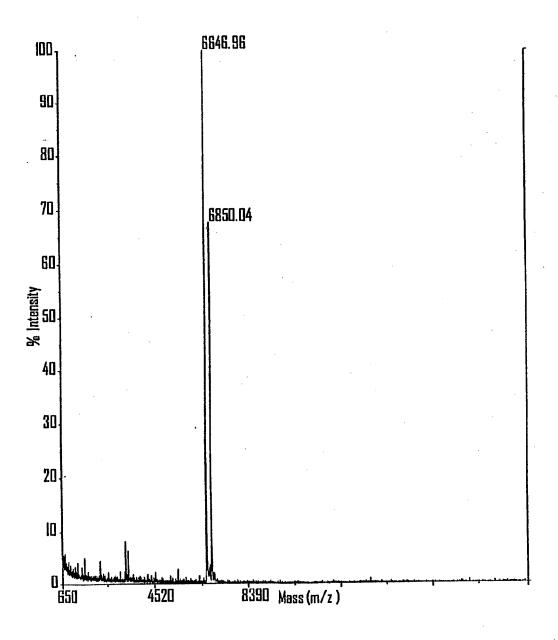


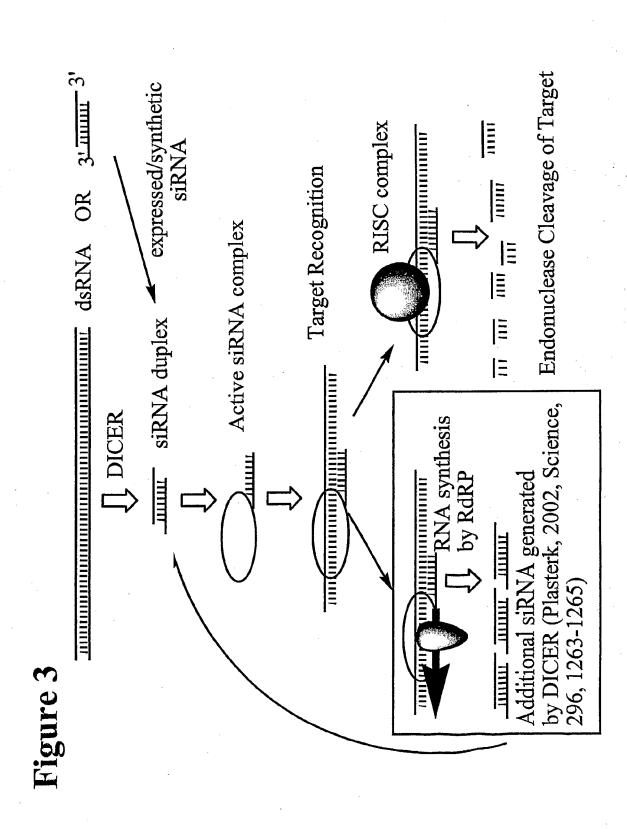
INVERTED DEOXYABASIC SUCCINATE LINKAGE

GLYCERYL SUCCINATE LINKAGE

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Figure 2





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Figure 4

SENSE STRAND (SEQ ID NO 1) ALL POSITIONS RIBONUCLEOTIDE EXCEPT POSITIONS (N N) B-NNNNNNNNNNNNNNNNNNNNNNNNNNNNN -31 Α 3'--5' ANTISENSE STRAND (SEQ ID NO 2) ALL POSITIONS RIBONUCLEOTIDE EXCEPT POSITIONS (N N) SENSE STRAND (SEO ID NO 3) ALL PYRIMIDINES = 2'-FLUORO AND ALL PURINES = 2'-OM EXCEPT POSITIONS (N N) 51--31 B 3'--51 ANTISENSE STRAND (SEQ ID NO 4) ALL PYRIMIDINES = 2'-FLUORO AND ALL PURINES = 2'-O-ME EXCEPT POSITIONS (N N) SENSE STRAND (SEQ ID NO 5) ALL PYRIMIDINES = 2'-O-ME OR 2'-FLUORO EXCEPT POSITIONS (N N) B-NNNNNNNNNNNNNNNNNNNNNNNNNNNNN-B -3' 3'--5' ANTISENSE STRAND (SEQ ID NO 6) ALL PYRIMIDINES = 2'-FLUORO EXCEPT POSITIONS (N SENSE STRAND (SEO ID NO 7) ALL PYRIMIDINES = 2'-FLUORO EXCEPT POSITIONS (N N) ÁND ALL PURINES = 2'-DEOXY 5'--3' 1) 3'-L-(N_sN) NNNNNNNNNNNNNNNNNNNNN -5' ANTISENSE STRAND (SEQ ID NO 4) ALL PYRIMIDINES = 2'-FLUORO AND ALL PURINES = 2'-O-MÉ EXCEPT POSITIONS (N N) SENSE STRAND (SEO ID NO 8) ALL PYRIMIDINES = 2'-FLUORO EXCEPT POSITIONS (N N) 5'-B-NNNNNNNNNNNNNNNNNNNNNNNNN (NN)-B -3' E L-(N_sN) NNNNNNNNNNNNNNNNNNNN -5' ANTISENSE STRAND (SEQ ID NO 4) ALL PYRIMIDINES = 2'-FLUORO AND ALL PURINES = 2'-O-MÉ EXCEPT POSITIONS (N N) SENSE STRAND (SEQ ID NO 7) ALL PYRIMIDINES = 2'-FLUORO EXCEPT POSITIONS (N N) AND ALL PURINES = 2'-DEOXY 5'-B-NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN -3' \mathbf{F} 3'--5' ANTISENSE STRAND (SEQ ID NO 9) ALL PYRIMIDINES = 2'-FLUORO EXCEPT POSITIONS (N N) AND ALL PURINES = 2'-DEOXY

POSITIONS (NN) CAN COMPRISE ANY NUCLEOTIDE, SUCH AS DEOXYNUCLEOTIDES (eg. THYMIDINE) OR UNIVERSAL BASES

B = ABASIC, INVERTED ABASIC, INVERTED NUCLEOTIDE OR OTHER TERMINAL CAP THAT IS OPTIONALLY PRESENT

L = GLYCERYL or B THAT IS OPTIONALLY PRESENT

S = PHOSPHOROTHIOATE OR PHOSPHORODITHIOATE that is optionally absent

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Figure 5



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lower case = 2'-O-Methyl or 2'-deoxy-2'-fluoro $italic\ lower\ case$ = 2'-deoxy-2'-fluoro $\underline{underline}$ = 2'-O-methyl

B = ABASIC, INVERTED ABASIC, INVERTED NUCLEOTIDE
OR OTHER TERMINAL CAP THAT IS OPTIONALLY PRESENT
L = GLYCERYL MOIETY or IB OPTIONALLY PRESENT
S = PHOSPHOROTHIOATE OR
PHOSPHORODITHIOATE OPTIONALLY PRESENT

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Figure 6

RNAi ANTISENSE

ANTISENSE

ANTISENSE SENSE

7

ANTISENSE

ANTISENSE SENSE

3

ANTISENSE

ANTISENSE

n = 0, 1, 2, 3, 4

ANTISENSE

SENSE

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مولد زمر

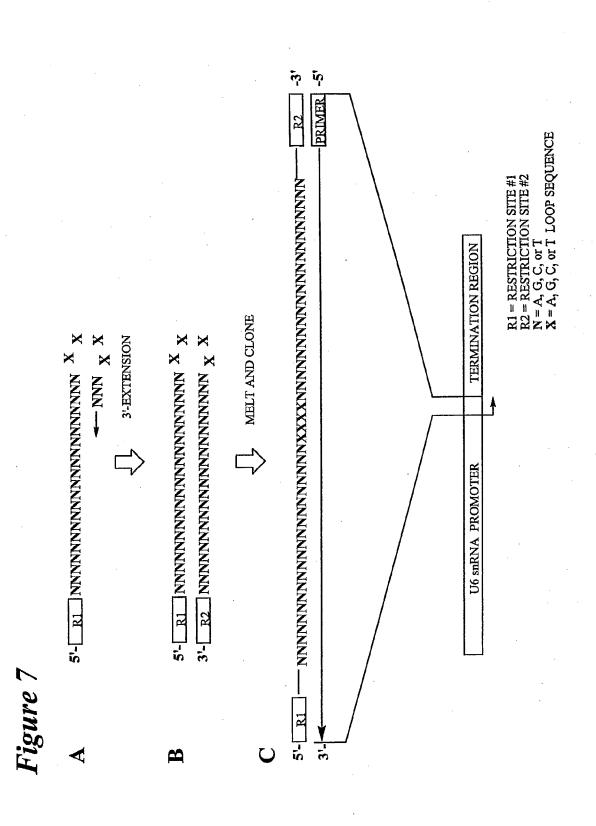
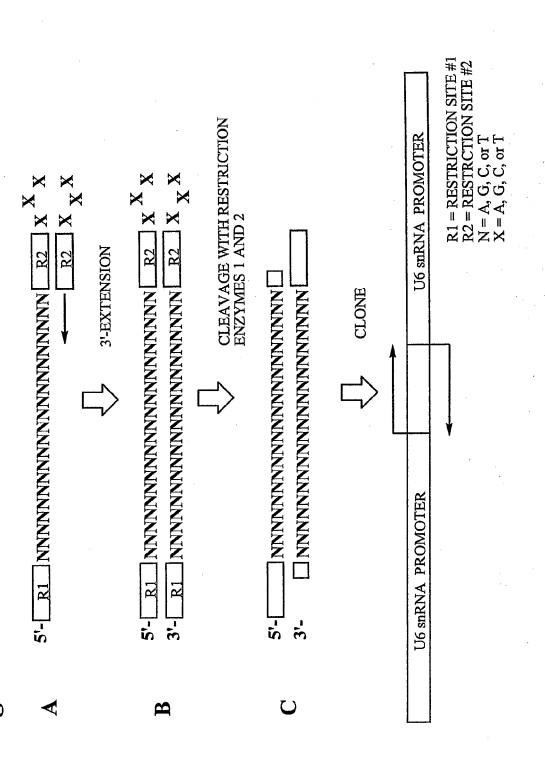
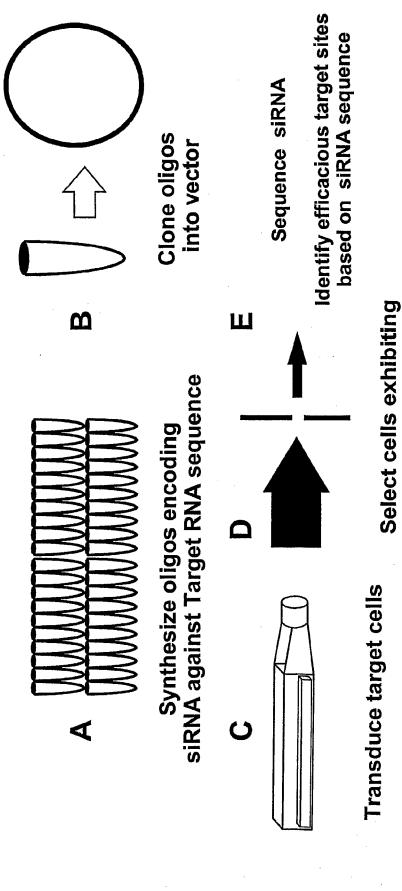


Figure 8



desired phenotype

Figure 9: Target site Selection using siRNA



R = O, S, N, alkyl, substituted alkyl, O-alkyl, S-alkyl, alkaryl, or aralkyl B = Independently any nucleotide base, either naturally occurring or chemically modified, or optionally H (abasic).

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Figure 11: Modification Strategy

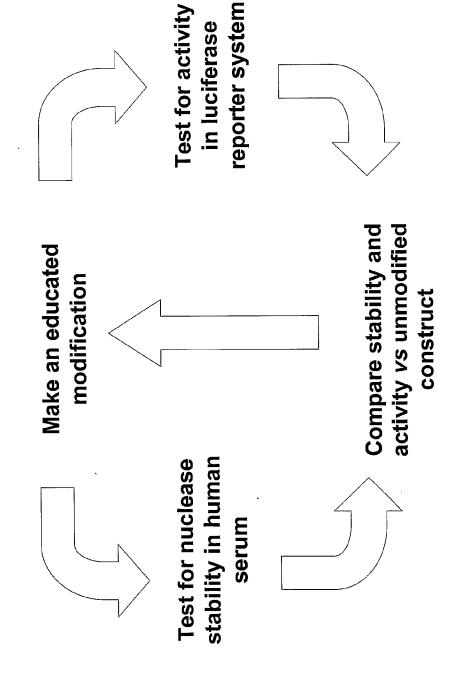


Figure 12: Phosphorylated siNA constructs

Asymmetric hairpin SiNA (n) Asymmetric duplex siNA 0-Phosphates can be modified as described herein

(n) = number of base pairs (e.g. 3-18 bp)

combination of other modifications herein

Figure 14A: Duplex forming oligonucleotide constructs that utilize Palindrome or repeat sequences

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Identify Target Nucleic Acid sequence (e.g., 14 to 24 nucleotides in length) containing palindrome/repeat sequence at 5'-end (dashed portion)

Design Complementary Sequence to the Target Nucleic Acid sequence of (i) above

Append inverse sequence of the
Non-palindromic Complementary
Sequence of (ii) to 3'-end of complementary
sequence

(iii) 3' Append in Non-paline Sequence sequence sequence sequence sequence sequence sequence

Self assembly of self complementary strands to form duplex construct

SEQ ID NO: 21

Figure 14B: Example of a duplex forming oligonucleotide sequence

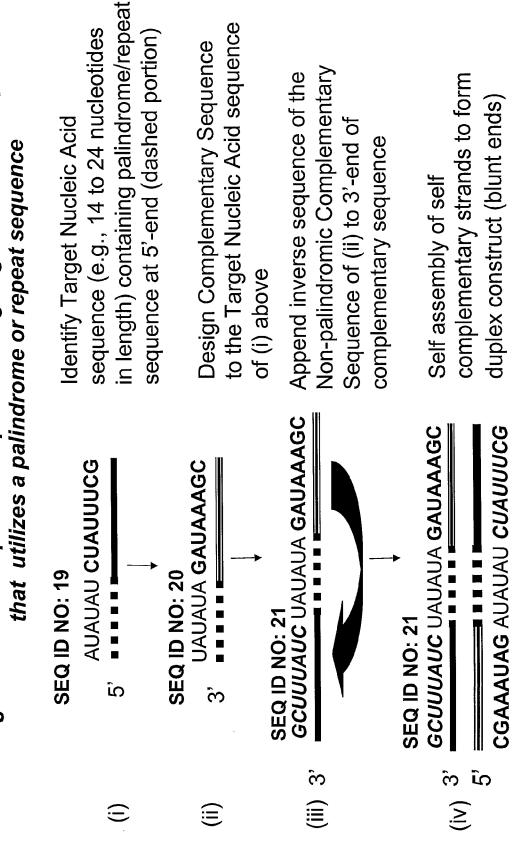


Figure 14C: Example of a duplex forming oligonucleotide sequence that utilizes a palindrome or repeat sequence, self assembly

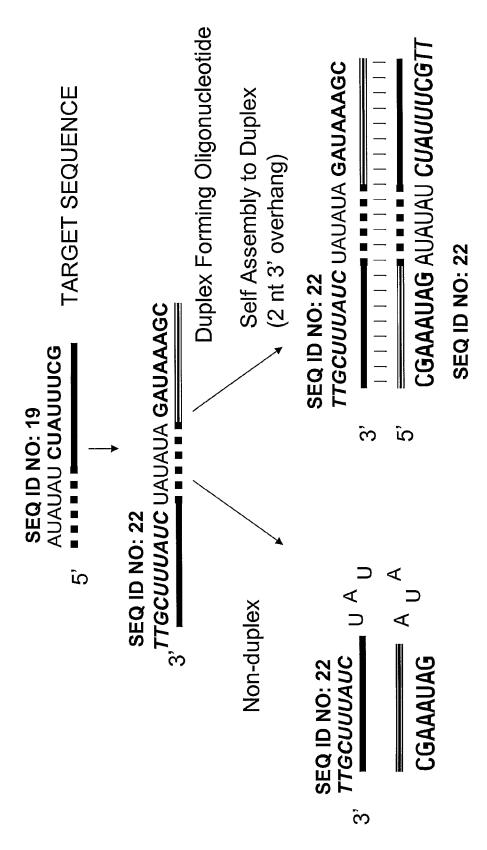


Figure 14D: Example of a duplex forming oligonucleotide sequence that

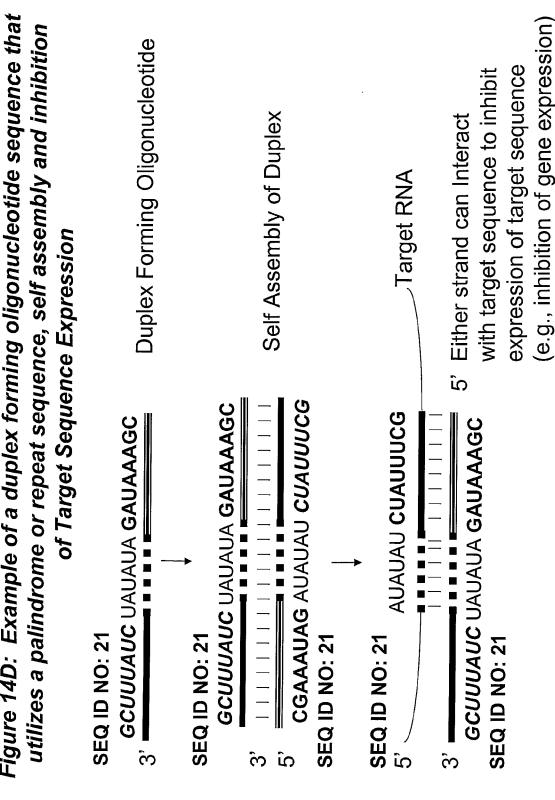


Figure 15: Duplex forming oligonucleotide constructs that utilize artificial palindrome or repeat sequences

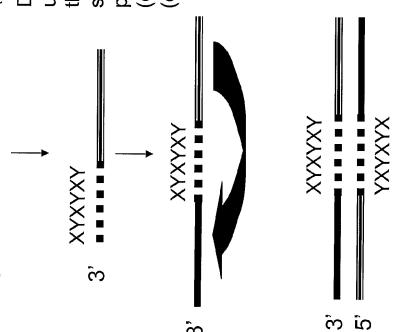
Identify Target Nucleic Acid sequence

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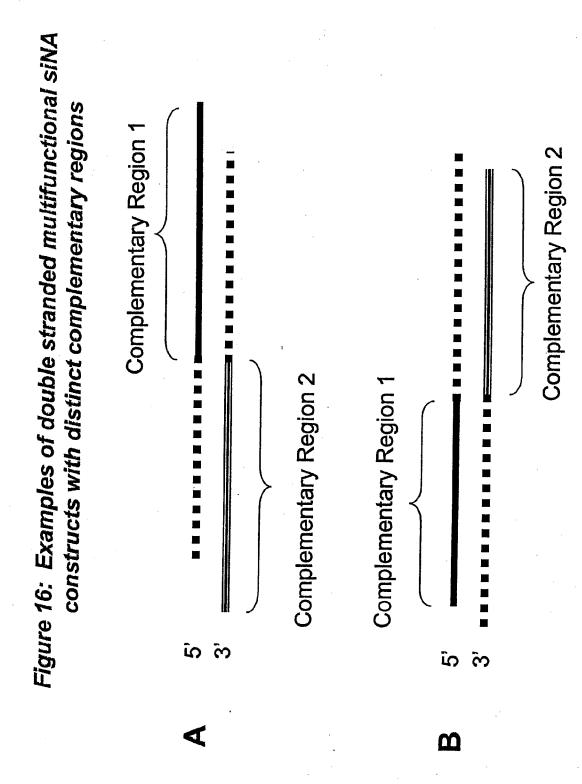
utilize modified nucleotides (shown as X, Y) sequence and result in the formation of a Design Complementary Sequence and that interact with a portion of the target (e.g., 14 to 24 nucleotides in length) (e.g., 2 to 12 nucleotides) at 3'-end palindrome/repeat sequence (dashed portion)

Complementary region to 3'-end of Append inverse sequence of palindrome/repeat sequence Hybridize self complementary strands to form duplex siNA construct

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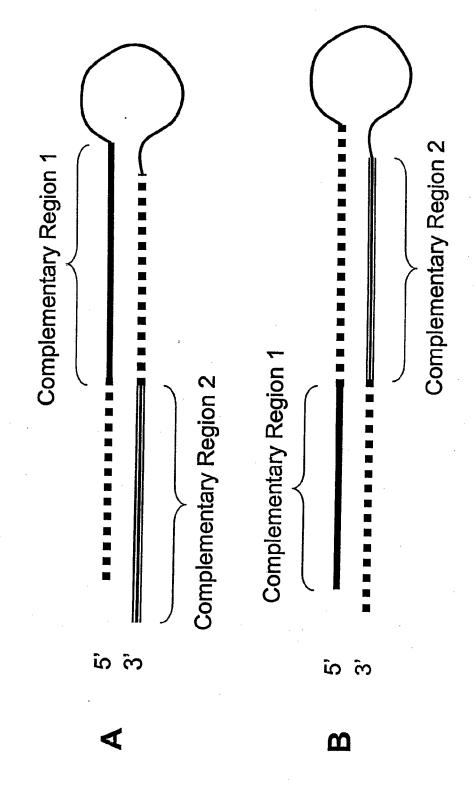


3



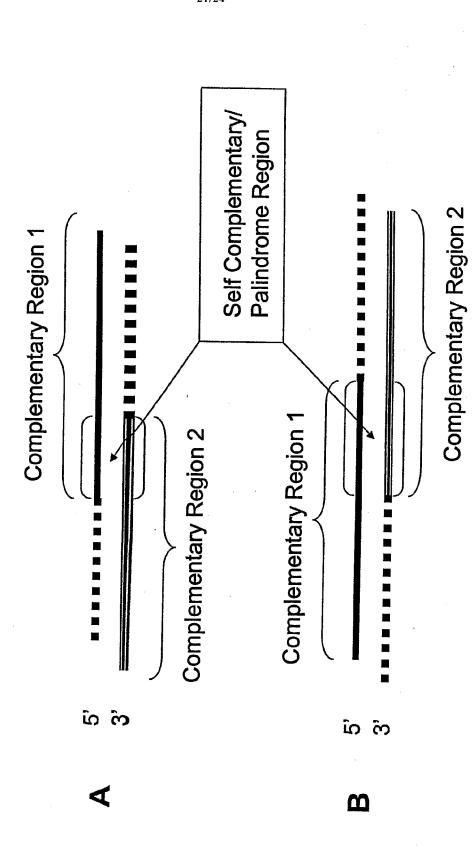
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Figure 17: Examples of hairpin multifunctional siNA constructs with distinct complementary regions



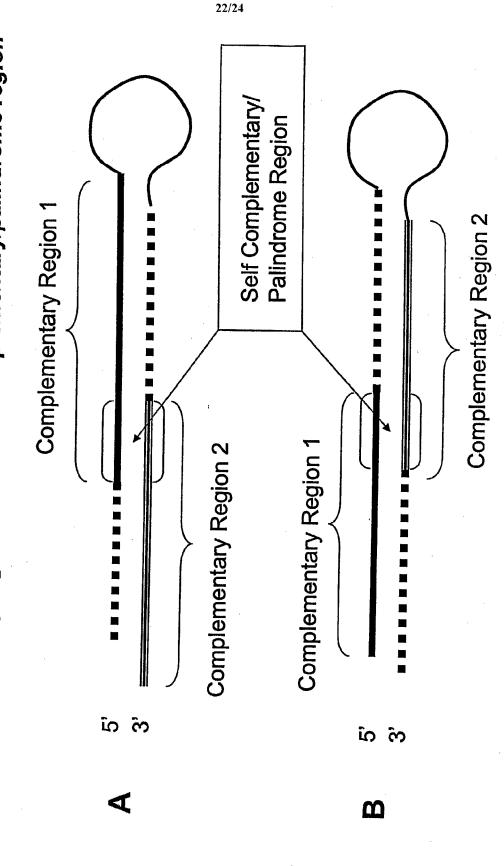
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distinct complementary regions and a self complementary/palindrome region Figure 18: Examples of double stranded multifunctional siNA constructs with



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distinct complementary regions and a self complementary/palindrome region Figure 19: Examples of hairpin multifunctional siNA constructs with



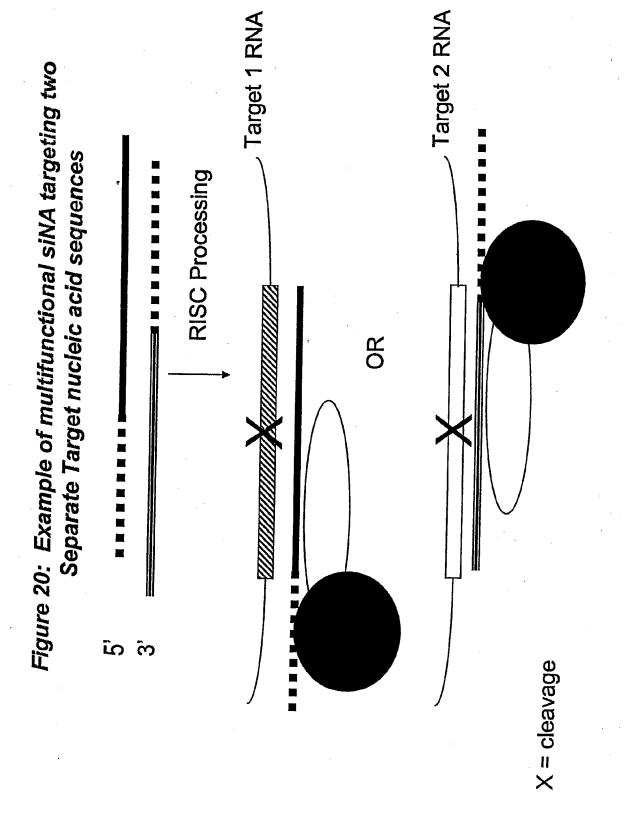


Figure 21: Example of multifunctional siNA targeting two regions within the same target nucleic acid sequence

